

Cys Ser Asp Thr Ser Leu Asn Glu Leu Leu Leu Phe Ala Ile Cys Gly  
 195 200 205  
 Phe Ile Gln Thr Ala Thr Val Leu Ala Ile Thr Val Ser Tyr Gly Phe  
 210 215 220  
 Ile Ala Gly Ala Val Ile His Met Arg Ser Val Glu Gly Ser Arg Arg  
 225 230 235 240  
 Ala Ala Ser Thr Gly Gly Ser His Leu Thr Ala Val Ala Met Met Tyr  
 245 250 255  
 Gly Thr Leu Ile Phe Met Tyr Leu Arg Pro Ser Ser Ser Tyr Ala Leu  
 260 265 270  
 Asp Thr Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Ser  
 275 280 285  
 Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala  
 290 295 300  
 Leu Arg Gln Thr Trp Ser Arg Phe His Cys Pro Gly Gln  
 305 310 315

&lt;210&gt; 1912

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g830 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(316)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1912

Met Val Ile Leu Ser Trp Glu Asn Gln Thr Met Arg Val Glu Phe Val  
 1 5 10 15  
 Leu Gln Gly Phe Ser Ser Ile Arg Gln Leu Asn Ile Phe Leu Phe Met  
 20 25 30  
 Ile Ile Leu Val Phe Tyr Ile Leu Thr Val Ser Gly Asn Ile Leu Ile  
 35 40 45  
 Val Leu Leu Val Leu Val Arg His His Leu His Thr Pro Met Tyr Phe  
 50 55 60  
 Leu Leu Val Asn Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Asn Ile  
 65 70 75 80  
 Ile Pro Lys Met Leu Leu Ile Ile Ile Ala Glu Xaa Lys Thr Ile Ser  
 85 90 95  
 Val Ala Gly Trp Leu Ala Gln Phe Tyr Phe Phe Gly Ser Leu Ala Ala  
 100 105 110  
 Thr Glu Cys Leu Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala  
 115 120 125  
 Ile Cys Gln Pro Leu Cys Tyr Arg Val Leu Met Thr Gly Pro Leu Cys  
 130 135 140  
 Ile Arg Leu Ala Ala Gly Ser Trp Phe Cys Cys Phe Leu Leu Thr Ala  
 145 150 155 160  
 Ile Thr Met Val Leu Leu Cys Arg Leu Thr Phe Cys Gly Pro Tyr Glu  
 165 170 175  
 Thr Asp His Phe Phe Cys Asp Phe Thr Pro Leu Val His Leu Ser Cys  
 180 185 190  
 Met Asp Thr Ser Val Thr Glu Thr Ile Ala Phe Ala Thr Ser Ser Ala  
 195 200 205  
 Val Thr Leu Ile Pro Phe Leu Leu Ile Val Ala Ser Tyr Ser Cys Val  
 210 215 220  
 Leu Ser Ala Ile Leu Arg Ile Pro Ser Cys Thr Gly Gln Lys Lys Ala  
 225 230 235 240  
 Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Val Phe Tyr Gly

				245					250					255			
Thr	Leu	Ile	Ala	Thr	Tyr	Leu	Val	Pro	Ser	Ala	Asn	Ser	Ser	Gln	Leu		
			260					265					270				
Leu	Cys	Lys	Gly	Ser	Ser	Leu	Leu	Tyr	Ile	Ile	Leu	Thr	Pro	Met	Phe		
		275					280					285					
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	His	Glu	Ala	Leu		
	290					295					300						
Lys	Lys	Cys	Leu	Arg	Lys	Lys	Ser	Gly	Val	Cys	Leu						
305					310					315							

&lt;210&gt; 1913

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g831 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(309)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1913

Glu	Xaa	Met	Gly	Thr	Ser	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Pro	Gly		
1				5					10					15			
Leu	Ser	Gln	Asp	Pro	Asp	Val	Gln	Lys	Ala	Leu	Phe	Val	Met	Phe	Leu		
		20					25					30					
Leu	Thr	Tyr	Asn	Val	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Val	Thr		
	35					40					45						
Ile	Ile	Ala	Ile	Ala	Ser	Leu	Asp	Ser	Pro	Val	Ser	Phe	Phe	Leu	Ala		
	50				55					60							
Cys	Leu	Ser	Phe	Ile	Asp	Ala	Val	Tyr	Ser	Thr	Ser	Phe	Ser	Pro	Lys		
65			70					75						80			
Leu	Met	Ile	Asp	Leu	Leu	Cys	Asp	Lys	Lys	Thr	Val	Ser	Phe	Leu	Ala		
		85					90					95					
Cys	Met	Gly	Gln	Leu	Phe	Ile	Asn	Tyr	Pro	Phe	Gly	Gly	Ile	Glu	Val		
	100						105				110						
Phe	Leu	Leu	Val	Gly	Met	Ala	Cys	Asp	His	Tyr	Val	Asp	Ile	Cys	Lys		
	115				120						125						
Leu	Leu	His	Tyr	Leu	Thr	Ile	Met	Asn	Trp	Gln	Val	Cys	Ile	Leu	Leu		
	130				135					140							
Phe	Met	Val	Ala	Val	Thr	Gly	Gly	Phe	Leu	His	Ser	Met	Phe	Gln	Ile		
145			150					155					160				
Val	Val	Val	Tyr	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His		
		165					170					175					
Phe	Cys	Asp	Met	Tyr	Pro	Leu	Leu	Glu	Met	Val	Cys	Thr	Asp	Thr	Tyr		
	180					185					190						
Phe	Ile	Gly	Leu	Thr	Val	Ile	Ala	Asn	Gly	Gly	Ala	Val	Cys	Met	Val		
	195				200					205							
Ile	Phe	Ile	Leu	Leu	Leu	Ile	Ser	Tyr	Gly	Val	Ile	Leu	Asn	Ser	Leu		
	210				215					220							
Lys	Thr	Tyr	Ser	Gln	Glu	Gly	Gly	His	Lys	Ala	Leu	Ser	Thr	Cys	Ser		
225			230					235						240			
Ser	Asn	Ile	Thr	Val	Val	Ser	Leu	Phe	Phe	Asp	Pro	Cys	Ile	Phe	Ile		
		245					250					255					
Tyr	Val	Arg	Pro	Asp	Ser	Asn	Phe	Pro	Ile	Asp	Lys	Phe	Met	Thr	Val		
	260					265						270					
Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu		
	275				280						285						
Arg	Asn	Leu	Glu	Val	Arg	Ile	Ala	Val	Lys	Asn	Leu	Trp	Cys	Lys	Asn		
	290				295						300						

Xaa Thr Ile Val Arg  
305

<210> 1914  
<211> 318  
<212> PRT  
<213> Unknown (H38g832 protein)

<220>  
<223> Synthetic construct

<221> VARIANT  
<222> (1)...(318)  
<223> Xaa = Any Amino Acid

<400> 1914  
Met Asp Arg Val Asn Asn Ser Ala Val Ser Lys Phe Val Leu Ile Gly  
1 5 10 15  
Leu Ser Ser Ser Trp Glu Met His Pro Phe Leu Phe Trp Phe Phe Ser  
20 25 30  
Val Phe Tyr Met Gly Ile Ile Leu Glu Asn Leu Phe Ile Val Phe Thr  
35 40 45  
Val Ile Ile Asp Ser His Leu Asn Ser Pro Val Tyr Cys Leu Leu Ala  
50 55 60  
Asn Ile Tyr Leu Leu Asp Leu Val Phe Ser Tyr Ser Ser Asp Phe Phe  
65 70 75 80  
Thr Asn Cys Ser Ile Ile Ser Phe Pro Arg Cys Met Ile Gln Ile Phe  
85 90 95  
Phe Ile Cys Val Met Arg Lys Ile Glu Met Val Leu Leu Ile Thr Met  
100 105 110  
Ala Xaa Ser Arg Tyr Thr Ala Ile Cys Lys Pro Pro His Tyr Leu Thr  
115 120 125  
Thr Met Asn Pro Lys Met Cys Val Ser Leu Leu Glu Ala Ser Trp Ile  
130 135 140  
Val Arg Ile Ile His Ala Val Ser Gln Phe Val Phe Ala Ile Asn Leu  
145 150 155 160  
Pro Phe Cys Gly Pro Asn Arg Val Gly Ser Phe His Cys Asp Phe Pro  
165 170 175  
Tyr Val Met Lys Leu Ala Cys Val Asp Thr Tyr Lys Leu Glu Val Val  
180 185 190  
Val Thr Ala Asn Ser Gly Leu Ile Ser Ile Ala Thr Cys Phe Leu Leu  
195 200 205  
Ile Ile Ser Tyr Ile Phe Ile Ser Val Thr Val Xaa Asn Pro Ser Ser  
210 215 220  
Gly Asp Leu Ser Lys Ala Phe Val Ser Cys Ser Asp His Ile Thr Val  
225 230 235 240  
Gly Ile Leu Phe Phe Met Pro Cys Ile Phe Leu Tyr Val Xaa Pro Leu  
245 250 255  
Pro Lys Thr Thr His Asp Xaa Tyr Leu Phe Ile Val Pro Leu Leu Ser  
260 265 270  
Pro Leu Ser Arg Ile Tyr Thr Leu Arg Asn Lys Asp Met Asn Val Ser  
275 280 285  
Met Glu Arg Leu Gly Lys Trp Ile Ala Gly Ser Ser Arg Met Ser Xaa  
290 295 300  
Xaa Met Val Leu Ser Arg Val Gln Asp Asp Ser Val Ser Pro  
305 310 315

<210> 1915  
<211> 309  
<212> PRT  
<213> Unknown (H38g833 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1915

```

Met Glu Gly Ile Asn Lys Thr Ala Lys Met Gln Phe Phe Phe Arg Pro
 1           5           10           15
Phe Ser Pro Asp Pro Glu Val Gln Met Leu Ile Phe Val Val Phe Leu
          20           25           30
Met Met Tyr Leu Thr Ser Leu Gly Gly Asn Ala Thr Ile Ala Val Ile
          35           40           45
Val Gln Ile Asn His Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ala
          50           55           60
Asn Leu Ala Val Leu Glu Ile Phe Tyr Thr Ser Ser Ile Thr Pro Leu
65           70           75           80
Ala Leu Ala Asn Leu Leu Ser Met Gly Lys Thr Pro Val Ser Ile Thr
          85           90           95
Gly Cys Gly Thr Gln Met Phe Phe Phe Val Phe Leu Gly Gly Ala Asp
          100          105          110
Cys Val Leu Leu Val Val Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys
          115          120          125
His Pro Leu Arg Tyr Arg Leu Ile Met Ser Trp Ser Leu Cys Val Glu
          130          135          140
Leu Leu Val Gly Ser Leu Val Leu Gly Phe Leu Leu Ser Leu Pro Leu
145          150          155          160
Thr Ile Leu Ile Phe His Leu Pro Phe Cys His Asn Asp Glu Ile Tyr
          165          170          175
His Phe Tyr Cys Asp Met Pro Ala Val Met Arg Leu Ala Cys Ala Asp
          180          185          190
Thr Arg Val His Lys Thr Ala Leu Tyr Ile Ile Ser Phe Ile Val Leu
          195          200          205
Ser Ile Pro Leu Ser Leu Ile Ser Ile Ser Tyr Val Phe Ile Val Val
          210          215          220
Ala Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Gln Ala Tyr Ser
225          230          235          240
Thr Cys Ser Ser His Ile Leu Val Val Leu Leu Gln Tyr Gly Cys Thr
          245          250          255
Ser Phe Ile Tyr Leu Ser Pro Ser Ser Ser Tyr Ser Pro Glu Met Gly
          260          265          270
Arg Val Val Ser Val Ala Tyr Thr Phe Ile Thr Pro Ile Leu Asn Pro
          275          280          285
Leu Ile Tyr Ser Leu Arg Asn Lys Glu Leu Lys Asp Ala Leu Arg Lys
          290          295          300
Ala Leu Arg Lys Phe
305

```

&lt;210&gt; 1916

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g834 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(329)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1916

```

Asp Ser Val Asp Gln Val Asn Asp Ser Leu Val Thr Glu Phe Val Leu
 1           5           10           15

```



```

Leu Gly Leu Ala Gln Ser Leu Glu Met Gln Phe Phe Leu Phe Leu Phe
      20      25      30
Phe Ser Leu Phe Tyr Val Gly Ile Leu Gly Asn Leu Phe Ile Val
      35      40      45
Phe Thr Val Ile Phe Asp Pro His Leu His Ser Pro Met Tyr Ile Leu
      50      55      60
Leu Ala Asn Leu Ser Leu Ile Asp Leu Ser Leu Ser Ser Thr Thr Val
      65      70      75      80
Pro Arg Leu Ile Tyr Asp Leu Phe Thr Asp Cys Lys Val Ile Ser Phe
      85      90      95
His Asn Cys Met Ile Gln Lys Phe Phe Ile His Val Thr Gly Gly Val
      100      105      110
Glu Met Val Leu Leu Ile Val Met Ala Tyr Asp Arg Tyr Thr Ala Ile
      115      120      125
Cys Lys Pro Leu His Tyr Pro Thr Ile Met Asn Pro Lys Met Cys Met
      130      135      140
Phe Leu Val Ala Ala Ala Trp Val Ile Gly Val Ile His Ala Met Ser
      145      150      155      160
Gln Phe Val Phe Val Ile Asn Leu Pro Phe Cys Gly Pro Asn Asn Val
      165      170      175
Gly Ser Phe Tyr Cys Asp Phe Pro Arg Val Ile Lys Leu Ala Cys Met
      180      185      190
Asp Thr Tyr Gly Leu Glu Phe Val Val Thr Ala Asn Ser Gly Phe Ile
      195      200      205
Ser Met Gly Thr Phe Phe Phe Leu Ile Val Ser Tyr Ile Phe Ile Leu
      210      215      220
Val Thr Val Gln Arg His Ser Ser Asn Asp Leu Ser Lys Ala Phe Phe
      225      230      235      240
Thr Ser Xaa Ala His Ile Thr Val Val Val Leu Phe Phe Ala Pro Cys
      245      250      255
Met Phe Leu Tyr Val Trp Pro Phe Pro Thr Lys Ser Leu Asp Lys Phe
      260      265      270
Phe Ala Ile Met Asn Phe Val Val Thr Pro Val Leu Asn Pro Ala Ile
      275      280      285
Tyr Thr Leu Arg Asn Lys Asp Met Lys Phe Ala Met Arg Arg Leu Asn
      290      295      300
Gln His Ile Leu Asn Ser Met Glu Met Thr Xaa His Ile Trp Leu Met
      305      310      315      320
Arg Ala Gln Asp Lys Cys His Gly Pro
      325

```

&lt;210&gt; 1917

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g835 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(257)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1917

```

Ser Met Tyr Phe Phe Leu Thr Asn Phe Ala Gly Leu Glu Ile Phe Tyr
      1      5      10      15
Phe Phe Thr Ile Ala Pro Leu Thr Leu Ala Asn Val Leu Pro Met Gly
      20      25      30
Arg Asn Leu Ile Ser Leu Pro Gly Cys Gly Gly Gln Met Phe Phe Phe
      35      40      45
Ile Phe Leu Gly Arg Ala Asp Cys Ile Leu Leu Ala Val Met Ala Phe

```

50	55	60
Asp Trp Phe Val Ala Ile Cys Cys Pro Leu Cys Tyr Gly Leu Ile Met		
65	70	75
Ser Trp Arg Leu Cys Val Gln Leu Thr Leu Gly Ser Leu Leu Leu Gly		80
	85	90
Phe Phe Leu Ala Met Gln Leu Thr Val Leu Ile Phe Gln Leu Pro Leu		95
	100	105
Cys Ser Ser Lys Glu Ile Ser Thr Phe Tyr Cys Asp Val Leu Pro Val		110
	115	120
Met Arg Leu Ala Cys Ala Asp Thr Trp Val His Glu Ala Thr Met Ser		125
	130	135
Met Val Ser Thr Thr Phe Leu Thr Val Pro Phe Leu Leu Ile Thr Leu		140
	145	150
Ser Tyr Val Ser Ile Met Ala Ala Ile Leu Lys Ile Cys Ser Ala Glu		155
	165	170
Gly Arg His Lys Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val		175
	180	185
Leu Leu Gln Asp Xaa Cys Thr Arg Leu Ala Phe Leu Cys Pro Ser Ser		190
	195	200
Ser Tyr Tyr Pro Glu Arg Gly Gln Ala Val Ser Val Val Tyr Thr Phe		205
	210	215
Ile Thr Pro Val Leu Asn Pro Leu Ile Tyr Ser Met Arg Asn Thr Glu		220
	225	230
Leu Lys Asp Ala Leu Lys Arg Ala Met Thr Arg Val Pro Leu Leu Xaa		235
	245	250
		255

Thr

&lt;210&gt; 1918

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g836 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1918

Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Glu Leu		
1	5	10
Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val		15
	20	25
Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu		30
	35	40
His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu		45
	50	55
Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser		60
	65	70
Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu		75
	85	90
Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly		95
	100	105
Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile		110
	115	120
Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Ala Trp Gly Ile		125
	130	135
Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Pro		140
	145	150
Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg		155
	165	170
Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val		175
	180	185
		190

Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile  
 195 200 205  
 Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His Cys Pro Leu Asp  
 210 215 220  
 Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His Ile Thr Val Val  
 225 230 235 240  
 Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala Trp Pro Phe Pro  
 245 250 255  
 Ile Lys Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Ile Thr  
 260 265 270  
 Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys  
 275 280 285  
 Thr Ala Ile Arg Arg Leu Arg Lys Trp Asp Ala His Ser Ser Val Lys  
 290 295 300  
 Phe  
 305

&lt;210&gt; 1919

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g837 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(318)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1919

Met Asp Arg Val Asn Asn Ser Ala Val Ser Lys Phe Val Leu Ile Gly  
 1 5 10 15  
 Leu Ser Ser Ser Trp Glu Met His Leu Phe Leu Phe Trp Phe Phe Ser  
 20 25 30  
 Val Phe Tyr Met Gly Ile Ile Leu Glu Asn Leu Phe Ile Val Phe Thr  
 35 40 45  
 Val Ile Ile Asp Ser His Leu Asn Ser Pro Val Tyr Cys Leu Leu Ala  
 50 55 60  
 Asn Ile Tyr Leu Leu Asp Leu Val Phe Ser Tyr Ser Ser Asp Phe Phe  
 65 70 75 80  
 Thr Asn Cys Ser Ile Ile Ser Phe Pro Arg Cys Met Ile Gln Ile Phe  
 85 90 95  
 Phe Ile Cys Val Met Arg Lys Ile Glu Met Val Leu Leu Ile Thr Met  
 100 105 110  
 Ala Xaa Ser Arg Tyr Thr Ala Ile Cys Lys Pro Pro His Tyr Leu Thr  
 115 120 125  
 Thr Met Asn Pro Lys Met Cys Val Ser Leu Leu Glu Ala Ser Trp Ile  
 130 135 140  
 Val Arg Ile Ile His Ala Val Ser Gln Phe Val Phe Ala Ile Asn Leu  
 145 150 155 160  
 Pro Phe Cys Gly Pro Asn Arg Val Gly Ser Phe His Cys Asp Phe Pro  
 165 170 175  
 Tyr Val Met Lys Leu Ala Cys Val Asp Thr Tyr Lys Leu Glu Val Val  
 180 185 190  
 Val Thr Ala Asn Ser Gly Leu Ile Ser Ile Ala Thr Cys Phe Leu Leu  
 195 200 205  
 Ile Ile Ser Tyr Ile Phe Ile Ser Val Thr Val Xaa Asn Pro Ser Ser  
 210 215 220  
 Gly Asp Leu Ser Lys Ala Phe Val Ser Cys Ser Asp His Ile Thr Val  
 225 230 235 240  
 Gly Ile Leu Phe Phe Met Pro Cys Ile Phe Leu Tyr Val Xaa Pro Leu

				245					250					255			
Pro	Lys	Thr	Thr	His	Asp	Xaa	Tyr	Leu	Phe	Ile	Val	Pro	Leu	Leu	Ser		
			260					265					270				
Pro	Leu	Ser	Arg	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Met	Asn	Val	Ser		
		275					280					285					
Met	Glu	Arg	Leu	Gly	Lys	Trp	Ile	Ala	Gly	Ser	Ser	Arg	Met	Ser	Xaa		
	290				295						300						
Xaa	Met	Val	Leu	Ser	Arg	Val	Gln	Asp	Asp	Ser	Val	Ser	Pro				
305					310					315							

&lt;210&gt; 1920

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g838 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(328)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1920

Leu	Ser	Ile	Cys	Phe	Phe	Leu	Cys	Ile	Phe	Ser	Ala	Asp	Ile	Xaa	Ser		
1				5					10					15			
Met	Leu	Ala	Met	Glu	Gln	Asn	Asn	Gly	Thr	Glu	Val	Thr	Glu	Phe	Ile		
		20						25					30				
Leu	Leu	Gly	Phe	Ala	Gly	Gln	His	Lys	Ser	Trp	His	Ile	Leu	Ser	Ile		
	35					40						45					
Ala	Phe	Leu	Ala	Ile	Tyr	Val	Val	Thr	Pro	Val	Gly	Asn	Ile	Gly	Met		
	50				55						60						
Ile	Leu	Leu	Ile	Lys	Ile	Asp	Ala	Ser	Leu	His	Ile	Pro	Met	Xaa	Ile		
65				70					75					80			
Phe	Leu	Gln	His	Leu	Ala	Phe	Val	Asp	Leu	Cys	Tyr	Thr	Ser	Ala	Ile		
		85						90					95				
Thr	Pro	Lys	Met	Leu	Lys	Asn	Phe	Val	Glu	Thr	Lys	Lys	Ser	Ile	Ser		
		100						105					110				
Cys	Ile	Gly	Cys	Met	Val	Gln	Leu	Val	Tyr	Gly	Thr	Phe	Ala	Thr			
	115					120					125						
Ser	Asp	Cys	Tyr	Ile	Leu	Ala	Ala	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala		
	130					135					140						
Phe	Cys	Asn	Pro	Leu	His	Tyr	Pro	Gly	Val	Met	Ser	Gln	Arg	Leu	Cys		
145				150						155				160			
Ile	Lys	Leu	Leu	Val	Ser	Ser	Tyr	Val	Met	Gly	Phe	Leu	Asn	Ala	Ser		
		165						170					175				
Ile	Asn	Ile	Ser	Phe	Thr	Phe	Ser	Leu	Asn	Phe	Cys	Lys	Ser	Lys	Thr		
	180							185					190				
Ile	Asn	His	Phe	Phe	Cys	Asp	Glu	Pro	Pro	Ile	Ile	Ala	Leu	Pro	Cys		
	195					200						205					
Ser	Asn	Ile	Asp	Leu	Asn	Ile	Met	Leu	Leu	Thr	Val	Phe	Val	Gly	Leu		
	210					215					220						
Asn	Leu	Met	Cys	Thr	Val	Met	Val	Val	Ile	Ile	Ser	Cys	Ile	Tyr	Val		
225				230						235				240			
Leu	Val	Ala	Ile	Leu	Arg	Ile	Ser	Ser	Ala	Ala	Gly	Lys	Lys	Lys	Ser		
		245							250					255			
Leu	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Ile	Phe	Tyr	Gly		
	260							265					270				
Val	Leu	Ser	Tyr	Met	Tyr	Leu	Cys	His	Arg	Ile	Asn	Glu	Ser	Gln	Lys		
	275					280						285					
Gln	Glu	Lys	Val	Ala	Ser	Val	Phe	Tyr	Gly	Ile	Ile	Ile	Pro	Met	Leu		
	290					295					300						

Asn Pro Leu Ile Tyr Ser Gln Arg Asn Gln Asp Val Ile Glu Ala Ile  
 305 310 315 320  
 Lys Leu Thr Glu Lys Lys Tyr Phe  
 325

<210> 1921

<211> 338

<212> PRT

<213> Unknown (H38g839 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(338)

<223> Xaa = Any Amino Acid

<400> 1921

Met Ile Ser Phe Leu Val Pro Gly Leu Met Glu Glu Glu Asn Gln Arg  
 1 5 10 15  
 Gly Val Val His Phe His Phe His Phe Phe Ser Thr Asp Leu Val Val  
 20 25 30  
 Ala Ser Phe Ile Ile Val Ala Leu Met Leu His Leu Arg Ser Leu Val  
 35 40 45  
 Gly His Phe Thr Phe Gly Pro Thr Val Trp Gln Asp Pro Phe Leu His  
 50 55 60  
 Ile Pro Met Tyr Leu Phe Leu Phe Ser Leu Ala Leu Thr Met Leu Glu  
 65 70 75 80  
 Ile Gly Tyr Ser Thr Asn Ile Ser Pro Pro Thr Leu Ala Thr Val Leu  
 85 90 95  
 Tyr Met Gly Lys Met Leu Ile Ser Leu Pro Gly Tyr Gly Thr Gln Met  
 100 105 110  
 Leu Phe Val Ile Leu Leu Arg Gly Ser Glu Cys Val Leu Leu Ala Val  
 115 120 125  
 Met Ala Tyr Asp Arg Tyr Ile Thr Ile Cys His Pro Phe Asn Tyr Asn  
 130 135 140  
 Leu Ile Met Ser Gly Xaa Leu Cys Gly Gln Met Thr Leu Gly Ser Leu  
 145 150 155 160  
 Arg Leu Gly Phe Leu Leu Ser Leu Phe Leu Thr Met Leu Ile Xaa His  
 165 170 175  
 Pro Pro Phe Cys Gly Leu Asp Glu Thr Tyr His Phe Phe Cys Asp Met  
 180 185 190  
 Pro Thr Ala Ser Arg Leu Val Cys Ala Asp Thr Thr Val His Glu Ser  
 195 200 205  
 Ala Leu Xaa Leu Pro Cys Gly His His His His Pro Leu Pro Ser Ser  
 210 215 220  
 Leu Ile Cys Leu Pro Tyr Gly Cys Leu Ala Ala Thr Ile Leu Arg Met  
 225 230 235 240  
 His Ser Ala Lys Arg Lys His Xaa Ala Phe Ser Thr Ser Ser Ser His  
 245 250 255  
 Leu Ile Val Val Leu Leu Lys Tyr Trp Cys Cys Ile Leu Ile Cys Leu  
 260 265 270  
 Cys Pro Ser Ser Ser Tyr Ser Pro Glu Glu Gly Trp Glu Val Ser Leu  
 275 280 285  
 Val His Met Phe Ile Leu Pro Val Trp Asn Pro Leu Ile Tyr Ser Val  
 290 295 300  
 Trp Asn Gln Asp Val Thr Asp Ala Val Glu Arg Leu Val Ala Arg Met  
 305 310 315 320  
 Ser Leu Val Leu Thr Ala Arg Asn Ile Pro Ser Xaa Lys Ile Phe Pro  
 325 330 335  
 Xaa Leu

<210> 1922  
 <211> 329  
 <212> PRT  
 <213> Unknown (H38g840 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(329)  
 <223> Xaa = Any Amino Acid

<400> 1922

```

Asp Ser Val Asp Gln Val Asn Asp Ser Leu Val Thr Glu Phe Val Leu
 1          5          10          15
Leu Gly Leu Ala Gln Ser Leu Glu Met Gln Phe Phe Leu Phe Leu Phe
 20          25          30
Phe Ser Leu Phe Tyr Val Gly Ile Ile Leu Gly Asn Leu Phe Ile Val
 35          40          45
Phe Thr Val Ile Phe Asp Pro His Leu His Ser Pro Met Tyr Ile Leu
 50          55          60
Leu Ala Asn Leu Ser Leu Ile Asp Leu Ser Leu Ser Ser Thr Thr Val
 65          70          75          80
Pro Arg Leu Ile Tyr Asp Leu Phe Thr Asp Cys Lys Val Ile Ser Phe
 85          90          95
His Asn Cys Met Ile Gln Lys Phe Phe Ile His Val Thr Gly Gly Val
 100          105          110
Glu Met Val Leu Leu Ile Val Met Ala Tyr Asp Arg Tyr Thr Ala Ile
 115          120          125
Cys Lys Pro Leu His Tyr Pro Thr Ile Met Asn Pro Lys Met Cys Met
 130          135          140
Phe Leu Val Ala Ala Ala Trp Val Ile Gly Val Ile His Ala Met Ser
 145          150          155          160
Gln Phe Val Phe Val Ile Asn Leu Pro Phe Cys Gly Pro Asn Asn Val
 165          170          175
Gly Ser Phe Tyr Cys Asp Phe Pro Arg Val Ile Lys Leu Ala Cys Met
 180          185          190
Asp Thr Tyr Gly Leu Glu Phe Val Val Thr Ala Asn Ser Gly Phe Ile
 195          200          205
Ser Met Gly Thr Phe Phe Phe Leu Ile Val Ser Tyr Ile Phe Ile Leu
 210          215          220
Val Thr Val Gln Arg His Ser Ser Asn Asp Leu Ser Lys Ala Phe Phe
 225          230          235          240
Thr Ser Xaa Ala His Ile Thr Val Val Val Leu Phe Phe Ala Pro Cys
 245          250          255
Met Phe Leu Tyr Val Trp Pro Phe Pro Thr Lys Ser Leu Asp Lys Phe
 260          265          270
Phe Ala Ile Met Asn Phe Val Val Thr Pro Val Leu Asn Pro Ala Ile
 275          280          285
Tyr Thr Leu Arg Asn Lys Asp Met Lys Phe Ala Met Arg Arg Leu Asn
 290          295          300
Gln His Ile Leu Asn Ser Met Glu Met Thr Xaa His Ile Trp Leu Met
 305          310          315          320
Arg Ala Gln Asp Lys Cys His Gly Pro
 325

```

<210> 1923  
 <211> 245  
 <212> PRT

<213> Unknown (H38g841 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(245)

<223> Xaa = Any Amino Acid

<400> 1923

```

Met Gln Ser Glu His Leu Ala Glu Phe Ser Glu Phe Leu Ile Leu Ser
 1           5           10           15
Leu Ser Glu Ile Gln Asn Cys Ser Pro Phe Phe Gly Leu Phe Leu Ser
 20           25           30
Met Asn Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ile
 35           40           45
Ser Ser Asp Ser His Leu His Lys Pro Met Tyr Phe Leu Leu Ser Lys
 50           55           60
Leu Ser Met Ala Ala Ile Cys Phe Val Phe Thr Met Ile Gln Lys Met
 65           70           75           80
Met Val Asn Leu Arg Ala Gln Ser Lys Asp Ile Phe Thr Gln Pro Ser
 85           90           95
Gly Ser Pro Ile Pro Phe Xaa Met Cys Ser Leu Ile Arg Phe Leu Leu
 100          105          110
Ile Gln Gln Lys Ser Val Val Leu Ile Phe Glu Tyr Ser Arg Phe Xaa
 115          120          125
Phe Ser Tyr Leu Asn Leu Lys Met Xaa Thr Asn Tyr Ser Phe Val Xaa
 130          135          140
Ala Phe Gln Asn Asn Xaa Arg Gln Leu Cys Pro Phe Leu Asp Asn His
 145          150          155          160
His Thr Phe Phe Thr Leu Ile Asp Thr Gln Leu Leu Ile Ser His Gly
 165          170          175
Phe Ser Thr Gln Thr Thr Phe Ile Leu Ser Ser Tyr Ala Ser Gly Tyr
 180          185          190
Ala Thr Val Asp Ser Gln Cys Phe Ile Tyr Phe Leu Asn Met Met Ile
 195          200          205
Thr Ile Asn Leu Phe Val Arg Phe Lys Asn Ile Phe Met His Ser Ser
 210          215          220
Ile Ser Ile Asn Tyr Asn Tyr Tyr Phe Lys Lys Xaa Asn Lys Gly Gly
 225          230          235          240
Ile Tyr Glu Ile Tyr
 245

```

<210> 1924

<211> 305

<212> PRT

<213> Unknown (H38g842 protein)

<220>

<223> Synthetic construct

<400> 1924

```

Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Glu Leu
 1           5           10           15
Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val
 20           25           30
Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu
 35           40           45
His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu
 50           55           60
Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser

```

```

65          70          75          80
Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu
      85          90          95
Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly
      100         105         110
Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile
      115         120         125
Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Ala Trp Gly Ile
      130         135         140
Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Pro
145          150         155         160
Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg
      165         170         175
Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val
      180         185         190
Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile
      195         200         205
Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His Arg Pro Leu Asp
210          215         220
Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His Ile Thr Val Val
225          230         235         240
Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala Trp Pro Phe Pro
      245         250         255
Ile Lys Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Ile Thr
      260         265         270
Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys
      275         280         285
Thr Ala Ile Arg Arg Leu Arg Lys Trp Asp Ala His Ser Ser Val Lys
290          295         300
Phe
305

```

&lt;210&gt; 1925

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g843 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1925

```

Met Ala Ala Gly Asn His Ser Thr Val Thr Glu Phe Ile Leu Lys Gly
1          5          10          15
Leu Thr Lys Arg Ala Asp Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
      20         25         30
Gly Ile Tyr Leu Val Thr Ile Val Gly Asn Leu Gly Met Ile Thr Leu
      35         40         45
Ile Cys Leu Asn Ser Gln Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
      50         55         60
Asn Leu Ser Leu Met Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys
65          70         75         80
Met Leu Val Asn Phe Val Ser Glu Lys Asn Ile Ile Ser Tyr Ala Gly
      85         90         95
Cys Met Ser Gln Leu Tyr Phe Phe Leu Val Phe Val Ile Ala Glu Cys
      100        105        110
Tyr Met Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
      115        120        125
Pro Leu Leu Tyr Asn Ile Ile Met Ser His His Thr Cys Leu Leu Leu
130          135         140
Val Ala Val Val Tyr Ala Ile Gly Leu Ile Gly Ser Thr Ile Glu Thr
145          150         155         160

```



Gly Leu Met Leu Lys Leu Pro Tyr Cys Glu His Leu Ile Ser His Tyr  
 165 170 175  
 Phe Cys Asp Ile Leu Pro Leu Met Lys Leu Ser Cys Ser Ser Thr Tyr  
 180 185 190  
 Asp Val Glu Met Thr Val Phe Phe Ser Ala Gly Phe Asn Ile Ile Val  
 195 200 205  
 Thr Ser Leu Thr Val Leu Val Ser Tyr Thr Phe Ile Leu Ser Ser Ile  
 210 215 220  
 Leu Gly Ile Ser Thr Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Leu Ala Ala Val Gly Met Phe Tyr Gly Ser Thr Ala Phe  
 245 250 255  
 Met Tyr Leu Lys Pro Ser Thr Ile Ser Ser Leu Thr Gln Glu Asn Val  
 260 265 270  
 Ala Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Ala Ala Val Gln Lys Thr Leu  
 290 295 300  
 Arg Gly Lys Leu Phe  
 305

&lt;210&gt; 1926

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g844 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1926

Met Ala Ala Lys Asn Ser Ser Val Thr Glu Phe Ile Leu Glu Gly Leu  
 1 5 10 15  
 Thr His Gln Pro Gly Leu Arg Ile Pro Leu Phe Phe Leu Phe Leu Gly  
 20 25 30  
 Phe Tyr Thr Val Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu Ile  
 35 40 45  
 Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn  
 50 55 60  
 Leu Ser Leu Ile Asp Phe Cys Phe Ser Thr Thr Ile Thr Pro Lys Met  
 65 70 75 80  
 Leu Met Ser Phe Val Ser Arg Lys Asn Ile Ser Phe Thr Gly Cys  
 85 90 95  
 Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Val Ser Glu Ser Phe  
 100 105 110  
 Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro  
 115 120 125  
 Leu Leu Tyr Thr Val Thr Met Ser Cys Gln Val Cys Leu Leu Leu Leu  
 130 135 140  
 Leu Gly Ala Tyr Gly Met Gly Phe Ala Gly Ala Met Ala His Thr Gly  
 145 150 155 160  
 Ser Ile Met Asn Leu Thr Phe Cys Ala Asp Asn Leu Val Asn His Phe  
 165 170 175  
 Met Cys Asp Ile Leu Pro Leu Leu Glu Leu Ser Cys Asn Ser Ser Tyr  
 180 185 190  
 Met Asn Glu Leu Val Val Phe Ile Val Val Ala Val Asp Val Gly Met  
 195 200 205  
 Pro Ile Val Thr Val Phe Ile Ser Tyr Ala Leu Ile Leu Ser Ser Ile  
 210 215 220  
 Leu His Asn Ser Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Ile Ile Val Val Ser Leu Phe Phe Gly Ser Gly Ala Phe

<210> 1927  
<211> 157  
<212> PRT  
<213> Unknown (H38g845 protein)

```
<221> VARIANT
<222> (1)...(157)
<223> Xaa = Any Amino Acid
```

<210> 1928  
<211> 333  
<212> PRT  
<213> Unknown (H38g846 protein)

```
<221> VARIANT
<222> (1)...(333)
<223> Xaa = Any Amino Acid
```

1108

```

Leu Ser Met Cys Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu
   35                               40                               45
Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
   50                               55                               60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Met Val Pro
   65                               70                               75                               80
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Leu Ile Ser Tyr Ala
                               85                               90                               95
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
                               100                              105                              110
Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile
                               115                              120                              125
Cys His Pro Leu Tyr Tyr Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
   130                              135                              140
Phe Leu Val Leu Leu Ser Cys Cys Leu Ser Leu Leu Asp Ser Gln Leu
   145                              150                              155                              160
His Asn Leu Ile Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile
                               165                              170                              175
Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His His Ala Cys Cys
                               180                              185                              190
Asp Thr Phe Thr Asn Asn Ile Val Met Tyr Phe Pro Ala Ala Ile Phe
   195                              200                              205
Gly Phe Leu Pro Thr Ser Gly Ile Leu Phe Ser Tyr Tyr Lys Ile Val
   210                              215                              220
Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Asn Tyr Lys Ala Leu
   225                              230                              235                              240
Ser Ala Cys Gly Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr
                               245                              250                              255
Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys
                               260                              265                              270
Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn
   275                              280                              285
Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val Leu Arg
   290                              295                              300
Arg Leu His Gly Arg Thr Val Xaa Ser Gln Tyr Leu Ile Ile Cys Ser
   305                              310                              315                              320
Ile Pro Phe Val Val Trp Val Xaa Lys Gly Ser Lys Val
                               325                              330

```

&lt;210&gt; 1929

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g847 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1929

```

Ser Gln Leu Ser Leu Met Asp Leu Met Leu Ile Cys Thr Thr Leu Pro
   1                               5                               10                               15
Lys Met Ile Phe Ser Tyr Leu Ser Gly Lys Lys Ser Ile Ser Leu Ala
   20                               25                               30
Gly Cys Gly Thr Gln Ile Phe Phe Tyr Val Ser Leu Leu Gly Ala Glu
   35                               40                               45
Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
   50                               55                               60
His Pro Leu Gln Tyr Thr Ile Leu Met Asn Pro Glu Leu Cys Val Phe
   65                               70                               75                               80
Met Thr Val Ala Ser Trp Thr Leu Gly Ser Leu Asp Gly Ile Ile Val
   85                               90                               95
Leu Ala Ala Val Leu Ser Phe Ser Tyr Cys Ser Ser Leu Glu Ile His

```

<400> 1931															
Met	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly	Leu	Ser	Asp	Ser	Gln	Gly	Leu
1				5					10					15	
Gln	Thr	Phe	Leu	Phe	Met	Leu	Phe	Phe	Val	Phe	Tyr	Gly	Gly	Ile	Val
			20					25					30		
Phe	Gly	Asn	Leu	Leu	Ile	Val	Ile	Thr	Val	Val	Ser	Asp	Ser	His	Leu
		35					40					45			

His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu  
 50 55 60  
 Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser  
 65 70 75 80  
 Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu  
 85 90 95  
 Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly  
 100 105 110  
 Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile  
 115 120 125  
 Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Ala Trp Gly Ile  
 130 135 140  
 Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Pro  
 145 150 155 160  
 Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg  
 165 170 175  
 Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val  
 180 185 190  
 Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile  
 195 200 205  
 Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His Arg Pro Leu Asp  
 210 215 220  
 Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His Ile Thr Val Val  
 225 230 235 240  
 Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala Trp Pro Phe Pro  
 245 250 255  
 Ile Lys Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Ile Thr  
 260 265 270  
 Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys  
 275 280 285  
 Thr Ala Ile Arg Gln Leu Arg Lys Trp Asp Ala His Ser Ser Val Lys  
 290 295 300  
 Phe  
 305

&lt;210&gt; 1932

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g850 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(223)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1932

Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Pro Ser Pro Thr Val Pro  
 1 5 10 15  
 Lys Met Val Val Asp Ile Gln Ser His Ser Arg Ser Phe Ser Tyr Ala  
 20 25 30  
 Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu  
 35 40 45  
 Glu Thr Leu Leu Leu Asn Val Met Ala Tyr Val Arg Phe Val Ala Ile  
 50 55 60  
 Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly  
 65 70 75 80  
 Phe Leu Leu Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ala Gln  
 85 90 95  
 Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu

			100					105					110				
Ile	Pro	Asn	Phe	Leu	Cys	Asp	Pro	Ser	Pro	Leu	Pro	His	Leu	Ala	Cys		
		115					120					125					
Cys	Asp	Thr	Phe	Thr	Asn	Asn	Ile	Ile	Met	Tyr	Phe	Pro	Ala	Ala	Ile		
	130					135					140						
Phe	Gly	Phe	Leu	Pro	Ile	Ser	Gly	Thr	Leu	Phe	Ser	Tyr	Tyr	Lys	Ile		
145					150					155					160		
Val	Ser	Ser	Ile	Leu	Arg	Val	Ser	Ser	Ser	Gly	Gly	Lys	Tyr	Lys	Ala		
			165						170					175			
Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Xaa	Phe	Tyr	Gly		
		180					185						190				
Thr	Gly	Val	Gly	Gly	Tyr	Leu	Gly	Ser	Asp	Val	Ser	Ser	Ser	Pro	Arg		
	195					200					205						
Lys	Ser	Ala	Val	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met			
	210					215					220						

&lt;210&gt; 1933

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g851 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(329)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1933

Asp	Ser	Val	Asp	Gln	Val	Asn	Asp	Ser	Leu	Val	Thr	Glu	Phe	Val	Leu		
1				5					10					15			
Leu	Gly	Leu	Ala	Gln	Ser	Leu	Glu	Met	Gln	Phe	Phe	Leu	Phe	Leu	Phe		
		20					25					30					
Phe	Ser	Leu	Phe	Tyr	Val	Gly	Ile	Ile	Leu	Gly	Asn	Leu	Phe	Ile	Val		
	35					40					45						
Phe	Thr	Val	Ile	Phe	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Ile	Leu		
	50				55					60							
Leu	Ala	Asn	Leu	Ser	Leu	Ile	Asp	Leu	Ser	Leu	Ser	Ser	Thr	Thr	Val		
65				70					75					80			
Pro	Arg	Leu	Ile	Tyr	Asp	Leu	Phe	Thr	Asp	Cys	Lys	Val	Ile	Ser	Phe		
			85				90						95				
His	Asn	Cys	Met	Ile	Gln	Lys	Phe	Phe	Ile	His	Val	Thr	Gly	Gly	Val		
	100						105					110					
Glu	Met	Val	Leu	Leu	Ile	Val	Met	Glu	Tyr	Asp	Arg	Tyr	Thr	Ala	Ile		
	115					120					125						
Cys	Lys	Pro	Leu	His	Tyr	Pro	Thr	Ile	Met	Asn	Pro	Lys	Met	Cys	Met		
	130					135				140							
Phe	Leu	Val	Ala	Ala	Ala	Trp	Val	Ile	Gly	Val	Ile	His	Ala	Met	Ser		
145				150					155					160			
Gln	Phe	Val	Phe	Val	Ile	Asn	Xaa	Pro	Phe	Cys	Gly	Pro	Asn	Asn	Val		
		165					170							175			
Gly	Ser	Phe	Tyr	Cys	Asp	Phe	Pro	Arg	Val	Ile	Lys	Leu	Ala	Cys	Met		
	180					185						190					
Asp	Thr	Tyr	Gly	Leu	Glu	Phe	Val	Val	Thr	Ala	Asn	Ser	Gly	Phe	Ile		
	195					200					205						
Ser	Met	Gly	Thr	Phe	Phe	Phe	Leu	Ile	Val	Ser	Tyr	Ile	Phe	Ile	Leu		
	210					215					220						
Val	Thr	Val	Gln	Arg	His	Ser	Ser	Asn	Asp	Leu	Ser	Lys	Ala	Phe	Phe		
225				230					235					240			
Thr	Ser	Xaa	Ala	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Ala	Pro	Cys		
			245						250					255			

Met Phe Leu Tyr Val Trp Pro Phe Pro Thr Lys Ser Leu Asp Lys Phe  
                   260                  265                  270  
 Phe Ala Ile Met Asn Phe Val Val Thr Pro Val Leu Asn Pro Ala Ile  
                   275                  280                  285  
 Tyr Thr Leu Arg Asn Lys Asp Met Lys Phe Ala Met Arg Arg Leu Asn  
                   290                  295                  300  
 Gln His Ile Leu Asn Ser Met Glu Thr Thr Xaa His Ile Trp Leu Met  
                   305                  310                  315                  320  
 Arg Ala Gln Asp Lys Cys His Gly Pro  
                   325

&lt;210&gt; 1934

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g852 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1934

Ser Val Leu Ser Ile Ser Glu Thr Tyr Tyr Thr Val Ala Ile Asn Pro  
   1                  5                  10                  15  
 Gln Met Leu Ser Gly Leu Leu Ser Pro Gln Gln Thr Ile Ser Ile Pro  
                   20                  25                  30  
 Gly Cys Ala Ala Gln Leu Phe Phe Tyr Leu Thr Phe Gly Val Asn Lys  
                   35                  40                  45  
 Cys Phe Leu Leu Thr Ala Met Gly Tyr Asp His Tyr Val Ala Ile Cys  
                   50                  55                  60  
 Asn Pro Leu Gln Tyr Ser Val Ile Met Gly Lys Lys Ala Cys Ile Gln  
                   65                  70                  75                  80  
 Leu Val Ser Gly Ser Trp Asn Ile Gly Leu Ser Thr Ala Ile Ile Gln  
                   85                  90                  95  
 Val Ser Ser Val Phe Ser Leu Pro Phe Cys Asp Ala Asn Leu Ile Ser  
                   100                  105                  110  
 His Phe Phe Cys Asp Ile Arg Pro Ile Met Lys Leu Ala Cys Ala Asp  
                   115                  120                  125  
 Thr Thr Ile Lys Glu Phe Ile Thr Leu Leu Ile Ser Leu Cys Val Leu  
                   130                  135                  140  
 Val Leu Pro Met Val Leu Ile Phe Ile Ser Tyr Val Leu Ile Val Thr  
                   145                  150                  155                  160  
 Thr Ile Leu Lys Ile Ala Ser Ala Glu Gly Arg Arg Lys Ala Phe Ala  
                   165                  170                  175  
 Thr Cys Ala Ser His Leu Thr Val Val Ile Val His Tyr Gly Arg Thr  
                   180                  185                  190  
 Ser Phe Ile Tyr Leu Lys Pro Lys Ser Gln Asn Ser Leu Gln Asp Arg  
                   195                  200                  205  
 Leu Ile Ser Val Thr Tyr Thr Val Ile Thr Pro Leu  
                   210                  215                  220

&lt;210&gt; 1935

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g853 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1935

Met Ser Thr Ser Asn His Thr Gln Phe His Pro Ser Ser Phe Leu Leu  
   1                  5                  10                  15  
 Leu Gly Ile Pro Gly Leu Glu Asp Val His Ile Trp Ile Gly Val Pro

```

                20                25                30
Phe Phe Phe Val Tyr Leu Val Ala Leu Leu Gly Asn Thr Ala Leu Leu
      35                40                45
Phe Val Ile Gln Thr Glu Gln Ser Leu His Glu Pro Met Tyr Tyr Phe
      50                55                60
Leu Ala Met Leu Asp Ser Ile Asp Leu Gly Leu Ser Thr Ala Thr Ile
65                70                75                80
Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Thr Lys Glu Ile Ser Phe
      85                90                95
Gly Gly Cys Leu Ser His Met Phe Phe Ile His Phe Phe Thr Ala Met
      100                105                110
Glu Ser Ile Val Leu Val Ala Met Ala Phe Asp Arg Tyr Ile Ala Ile
      115                120                125
Cys Lys Pro Leu Arg Tyr Thr Met Ile Leu Thr Ser Lys Ile Ile Ser
      130                135                140
Leu Ile Ala Gly Ile Ala Val Leu Arg Ser Leu Tyr Met Val Val Pro
145                150                155                160
Leu Val Phe Leu Leu Arg Leu Pro Phe Cys Gly His Arg Ile Ile
      165                170                175
Pro His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys Ala
      180                185                190
Ser Ile Lys Val Asn Ile Arg Phe Gly Leu Gly Asn Ile Ser Leu Leu
      195                200                205
Leu Leu Asp Val Ile Leu Ile Ile Leu Ser Tyr Val Arg Ile Leu Tyr
      210                215                220
Ala Val Phe Cys Leu Pro Ser Trp Glu Ala Arg Leu Lys Ala Leu Asn
225                230                235                240
Thr Cys Gly Ser His Ile Gly Val Ile Leu Ala Phe Phe Thr Pro Ala
      245                250                255
Phe Phe Ser Phe Leu Thr His Arg Phe Gly His Asn Ile Pro Gln Tyr
      260                265                270
Ile His Ile Leu Ala Asn Leu Tyr Val Val Val Pro Pro Ala Leu
      275                280                285
Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Glu Arg Val
      290                295                300
Leu Arg Ile Phe Leu Lys Thr Asn His
305                310

```

&lt;210&gt; 1936

&lt;211&gt; 295

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g854 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(295)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1936

```

Tyr Met Ile Thr Ile Leu Trp Glu Ile Ser Lys Pro Val Asn Asn Ile
1                5                10                15
Phe Leu Thr Leu Ser Val Arg Tyr Gln Met Leu Ile Thr Thr Val Ser
      20                25                30
Xaa Leu Xaa Met Lys Ser Ile Ile Xaa Ile Tyr Xaa Ser Phe Ser Glu
      35                40                45
Tyr Leu Met Ser Xaa Lys Ile Trp Glu His Met Xaa Tyr Cys Ala Cys
      50                55                60
Ile Asn Met Asp Lys Val Ser Glu Val Phe Ser Glu His Leu Phe Gly
65                70                75                80

```



<400> 1937																
Met	Glu	Lys	Lys	Lys	Asn	Val	Thr	Glu	Phe	Ile	Leu	Ile	Gly	Leu	Thr	
1				5					10					15		
Gln	Asn	Pro	Ile	Met	Glu	Lys	Val	Thr	Phe	Val	Val	Phe	Leu	Val	Leu	
			20					25					30			
Tyr	Met	Ile	Thr	Leu	Ser	Gly	Asn	Leu	Leu	Ile	Val	Val	Thr	Ile	Thr	
		35					40						45			
Thr	Ser	Gln	Ala	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Thr	His	Leu	
		50				55					60					
Ser	Leu	Ile	Asp	Thr	Val	Tyr	Ser	Ser	Ser	Ser	Ala	Pro	Lys	Leu	Ile	
65					70					75					80	
Val	Asp	Ser	Phe	Gln	Glu	Lys	Lys	Ile	Ile	Ser	Phe	Asn	Gly	Cys	Met	
				85					90					95		
Ala	Gln	Ala	Tyr	Ala	Glu	His	Ile	Phe	Gly	Ala	Thr	Glu	Ile	Ile	Leu	
			100					105					110			
Leu	Thr	Val	Met	Ala	Cys	Asp	Cys	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	
		115					120					125				
Asn	Tyr	Thr	Thr	Ile	Met	Ser	His	Ser	Leu	Cys	Ile	Leu	Leu	Val	Ala	
		130			135						140					
Val	Ala	Trp	Val	Gly	Gly	Phe	Leu	His	Ala	Thr	Ile	Gln	Ile	Leu	Phe	
145				150						155				160		
Thr	Val	Trp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Gly	His	Phe	Met	
				165					170					175		
Cys	Asp	Leu	Tyr	Pro	Leu	Leu	Lys	Leu	Val	Cys	Ile	Asp	Thr	His	Thr	

180	185	190
Leu Gly Leu Phe Val Ala Val	Asn Ser Gly Phe Ile Cys Leu Leu Asn	
195	200	205
Phe Leu Ile Leu Val Val Ser Tyr Val Ile Ile Leu Arg Ser Leu Lys		
210	215	220
Asn Asn Ser Leu Glu Gly Arg Cys Lys Ala Leu Ser Thr Cys Ile Ser		
225	230	235
His Ile Ile Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Val Tyr		
245	250	255
Leu Arg Ser Val Thr Thr Leu Pro Ile Asp Lys Ala Val Ala Val Phe		
260	265	270
Tyr Thr Met Val Val Pro Met Leu Asn Pro Val Val Tyr Thr Leu Arg		
275	280	285
Asn Ala Glu Val Lys Ser Ala Ile Arg Lys Leu Trp Arg Lys Lys Val		
290	295	300
Thr Ser Asp Asn Asp		
305		

&lt;210&gt; 1938

&lt;211&gt; 246

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g856 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(246)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1938

Cys Ile Gln Gln His Xaa Ser Pro Leu Cys Leu Cys Met Phe Ser Phe		
1	5	10
Tyr Phe Asn Leu Tyr His Phe Phe Pro Lys Xaa Lys Tyr Leu His Ser		
20	25	30
Leu Arg Asp Ala Glu Ile Asn Xaa Leu Val Xaa Ser Lys Val Leu Ile		
35	40	45
Asn Gln Ile Tyr Thr Lys Ala Asn Trp Pro Phe His Gly Leu Xaa His		
50	55	60
Tyr Ala Gln Pro Leu His Thr Gln Thr Cys Ile Ser Phe Ser Asn Val		
65	70	75
Ile Xaa Cys Ser Thr Xaa Leu Phe Thr Gly His Phe Phe Leu Gly Gly		
85	90	95
Ser Gln Ile Phe Leu Leu Leu Val Met Ala Tyr Gly His Tyr Arg Ala		
100	105	110
Ile Cys Lys Ser Leu Gln Tyr Leu Val Val Met Lys Gln Trp Leu Cys		
115	120	125
Val Val Leu Leu Val Val Ser Trp Ala Gly Gly Phe Leu His Ile Val		
130	135	140
Ile Gln Leu Gly Leu Ile Tyr Gly Leu Pro Ser Tyr Asp Pro Asn Val		
145	150	155
Ile Gly His Phe Ile Cys Asp Met Asp Pro Leu Met Lys Leu Val Cys		
165	170	175
Asp Tyr Thr Leu Asn Arg Phe Ala Tyr Phe Ala Gly His Asp Xaa Ile		
180	185	190
Leu Gly Phe Met Tyr Phe Thr Tyr Ala Gln Thr Gly Leu Phe Pro Phe		
195	200	205
Gly Asp Ser Thr Ser Leu Phe Cys His Phe Phe Pro Arg Gly Leu		
210	215	220
Gly Ser Ile Asn Leu Ala Ile His Ser Tyr Tyr Pro Cys Gly Ile Ser		
225	230	235
		240

Arg Asp Thr Glu Pro Thr  
245

<210> 1939  
<211> 262  
<212> PRT  
<213> Unknown (H38g857 protein)

<220>  
<223> Synthetic construct

<221> VARIANT  
<222> (1)...(262)  
<223> Xaa = Any Amino Acid

<400> 1939  
Leu Ile Val Val Thr Val Thr Val Ser Glu Thr Leu Gly Ser Pro Met  
1 5 10 15  
Tyr Phe Phe Leu Ala Gly Leu Ser Phe Ile Asp Ile Ile Tyr Ser Ser  
20 25 30  
Ser Ile Ser His Arg Leu Ile Ser Asp Leu Phe Phe Gly Asn Asn Ser  
35 40 45  
Ile Ser Phe Pro Ser Cys Leu Ala Gln Leu Phe Thr Glu His Leu Phe  
50 55 60  
Gly Gly Ser Glu Val Phe Leu Leu Leu Val Met Ala Tyr Asp Leu His  
65 70 75 80  
Tyr Leu Val Ile Met Arg Gln Trp Val Cys Val Leu Leu Leu Val Ala  
85 90 95  
Ser Trp Val Gly Phe Leu His Ser Val Phe Gln Leu Ser Val Ile  
100 105 110  
Tyr Gly Leu Pro Phe Cys Asp Leu Asn Val Ile Asp His Phe Phe Cys  
115 120 125  
Asp Met His Pro Leu Leu Lys Leu Val Cys Thr Asp Thr His Val Ile  
130 135 140  
Gly Leu Leu Val Val Ala Asn Gly Gly Leu Gly Cys Thr Ile Val Phe  
145 150 155 160  
Leu Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu His Ser Leu Lys Asn  
165 170 175  
Leu Ser Gln Lys Gly Arg Xaa Lys Ala Leu Ser Thr Cys Ser Ser His  
180 185 190  
Ile Thr Val Val Val Phe Phe Phe Val Pro Cys Ile Phe Met Tyr Ala  
195 200 205  
Arg Pro Ala Arg Thr Phe Pro Ile Asp Lys Ser Val Ser Val Phe Tyr  
210 215 220  
Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn  
225 230 235 240  
Ser Glu Met Thr Ser Ala Met Lys Lys Leu Trp Arg Arg Asp Phe Ile  
245 250 255  
Ser Ser Ser Thr Xaa Val  
260

<210> 1940  
<211> 309  
<212> PRT  
<213> Unknown (H38g858 protein)

<220>  
<223> Synthetic construct

<221> VARIANT  
<222> (1)...(309)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1940

```

Met Arg Gln Asn Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
 1           5           10           15
Gln Asp Leu Asp Val Gln Lys Ala Leu Phe Val Ile Phe Leu Leu Thr
      20           25           30
Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Val Thr Ile Ile
      35           40           45
Ala Ser Pro Ser Leu Gly Ser Ser Met Tyr Phe Phe Leu Ala Cys Leu
      50           55           60
Ser Phe Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile
      65           70           75           80
Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Pro Ala Cys Met
      85           90           95
Gly Gln Leu Phe Ile Asp His Leu Asp Gly Gly Ala Glu Val Val Leu
      100           105           110
Leu Val Val Lys Ala Cys Asp His His Val Asp Ile Trp Lys Pro Leu
      115           120           125
Arg Tyr Leu Thr Ile Met Asn Arg Gln Gly Xaa Met Arg Leu Leu Val
      130           135           140
Ala Val Val Thr Gly Gly Val Leu His Ser Leu Ser His Ile Val Ser
      145           150           155           160
Val Val Tyr Ser Leu Ala Tyr Cys Gly Pro Asn Val Ile Asp Tyr Phe
      165           170           175
Val Cys Asp Met Tyr Pro Leu Leu Glu Leu Val Cys Thr Asp Thr Tyr
      180           185           190
Phe Ile Gly Leu Thr Val Phe Val Asn Gly Gly Thr Ile Cys Ile Val
      195           200           205
Val Phe Thr Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Asn Ser Leu
      210           215           220
Lys Thr Tyr Ser Gln Glu Gly Arg His Lys Val Leu Phe Thr Cys Ser
      225           230           235           240
Ser His Ile Ile Val Phe Ala Leu Phe Phe Val Pro Cys Ile Phe Met
      245           250           255
Tyr Val Arg Pro Val Ser Asn Tyr Pro Phe Asp Lys Phe Leu Thr Val
      260           265           270
Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu
      275           280           285
Arg Asn Ser Glu Met Arg Asn Ser Val Glu Thr Leu Leu Cys Lys Lys
      290           295           300
Leu Thr Val Leu Glu
      305

```

&lt;210&gt; 1941

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g859 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1941

```

Met Gln Arg Ser Asn His Thr Val Thr Glu Phe Ile Leu Leu Gly Phe
 1           5           10           15
Thr Thr Asp Pro Gly Met Gln Leu Gly Leu Phe Val Val Phe Leu Gly
      20           25           30
Val Tyr Ser Leu Thr Val Val Gly Asn Ser Thr Leu Ile Val Leu Ile
      35           40           45
Cys Asn Asp Ser His Leu His Thr Pro Met Tyr Phe Val Val Gly Asn
      50           55           60

```

Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val Tyr Thr Pro Lys Ile  
 65 70 75 80  
 Leu Val Ile Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys  
 85 90 95  
 Leu Cys Gln Phe Phe Phe Ser Ala Gly Leu Ala Tyr Ser Glu Cys Cys  
 100 105 110  
 Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro  
 115 120 125  
 Leu Leu Tyr Ala Gln Ala Met Ser Ile Lys Leu Cys Ala Leu Leu Val  
 130 135 140  
 Ala Val Ser Tyr Cys Gly Phe Ile Asn Ser Ser Ile Ile Thr Lys  
 145 150 155 160  
 Lys Thr Phe Ser Phe Asn Phe Cys Arg Glu Asn Ile Ile Asp Asp Phe  
 165 170 175  
 Phe Cys Asp Leu Leu Pro Leu Val Glu Leu Ala Cys Gly Glu Lys Gly  
 180 185 190  
 Gly Tyr Lys Ile Met Met Tyr Phe Leu Leu Ala Ser Asn Val Ile Cys  
 195 200 205  
 Pro Ala Val Leu Ile Leu Ala Ser Tyr Leu Phe Ile Ile Thr Ser Val  
 210 215 220  
 Leu Arg Ile Ser Ser Ser Lys Gly Tyr Leu Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Leu Thr Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr  
 245 250 255  
 Ile Tyr Ala Leu Pro Arg Ser Ser Tyr Ser Phe Asp Met Asp Lys Ile  
 260 265 270  
 Val Ser Thr Phe Tyr Thr Val Val Phe Pro Met Leu Asn Leu Met Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu Leu  
 290 295 300  
 Pro  
 305

&lt;210&gt; 1942

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g860 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1942

Met Ile Cys Glu Asn His Thr Arg Val Thr Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Phe Thr Asn Asn Pro Glu Met Gln Val Ser Leu Phe Ile Phe Phe Leu  
 20 25 30  
 Ala Ile Tyr Thr Val Thr Leu Leu Gly Asn Phe Leu Ile Val Thr Val  
 35 40 45  
 Thr Ser Val Asp Leu Ala Leu Gln Thr Pro Met Tyr Phe Phe Leu Gln  
 50 55 60  
 Asn Leu Ser Leu Leu Glu Val Cys Phe Thr Leu Val Met Val Pro Lys  
 65 70 75 80  
 Met Leu Val Asp Leu Val Ser Pro Arg Lys Ile Ile Ser Phe Val Gly  
 85 90 95  
 Cys Gly Thr Gln Met Tyr Phe Phe Phe Phe Gly Ser Ser Glu Cys  
 100 105 110  
 Phe Leu Leu Ser Met Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu His Tyr Ser Val Ile Met Asn Arg Ser Leu Cys Leu Trp Met  
 130 135 140  
 Ala Ile Gly Ser Trp Met Ser Gly Val Pro Val Ser Met Leu Gln Thr

```

145          150          155          160
Ala Trp Met Met Ala Leu Pro Phe Cys Gly Pro Asn Ala Val Asp His
          165          170          175
Phe Phe Cys Asp Gly Pro Pro Val Leu Lys Leu Val Thr Val Asp Thr
          180          185          190
Thr Met Tyr Glu Met Gln Ala Leu Ala Ser Thr Leu Leu Phe Ile Met
          195          200          205
Phe Pro Phe Cys Leu Ile Leu Val Ser Tyr Thr Arg Ile Ile Ile Thr
          210          215          220
Ile Leu Arg Met Ser Ser Ala Thr Gly Arg Gln Lys Ala Phe Ser Thr
225          230          235          240
Cys Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ser
          245          250          255
Leu Thr Tyr Leu Arg Pro Lys Ser Asn Gln Ser Pro Glu Ser Lys Lys
          260          265          270
Leu Val Ser Leu Ser Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile
          275          280          285
Ile Tyr Gly Leu Arg Asn Asn Glu Val Lys Gly Ala Val Lys Arg Thr
          290          295          300
Ile Thr Gln Lys Val Leu Gln Lys Leu Asp Val Phe
305          310          315

```

&lt;210&gt; 1943

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g861 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1943

```

Met Ala Asn Arg Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1          5          10          15
Glu Asn Pro Lys Met Gln Lys Ile Ile Phe Val Val Phe Ser Val Ile
          20          25          30
Tyr Ile Asn Ala Met Ile Gly Asn Val Leu Ile Val Val Thr Ile Thr
          35          40          45
Ala Ser Pro Ser Leu Arg Ser Pro Met Tyr Phe Phe Leu Ala Tyr Leu
          50          55          60
Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Asn Thr Pro Lys Leu Ile
65          70          75          80
Thr Asp Ser Leu Tyr Glu Asn Lys Thr Ile Leu Phe Asn Gly Cys Met
          85          90          95
Thr Gln Val Phe Gly Glu His Phe Phe Arg Gly Val Glu Val Ile Leu
          100          105          110
Leu Thr Val Met Ala Tyr Asp His Tyr Val Ala Ile Cys Lys Pro Leu
          115          120          125
His Tyr Thr Thr Ile Met Lys Gln His Val Cys Ser Leu Leu Val Gly
          130          135          140
Val Ser Trp Val Gly Gly Phe Leu His Ala Thr Ile Gln Ile Leu Phe
145          150          155          160
Ile Cys Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met
          165          170          175
Cys Asp Leu Tyr Thr Leu Ile Asn Leu Ala Cys Thr Asn Thr His Thr
          180          185          190
Leu Gly Leu Phe Ile Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn
          195          200          205
Cys Leu Leu Leu Leu Val Ser Cys Val Val Ile Leu Tyr Ser Leu Lys
          210          215          220
Thr His Ser Leu Glu Ala Arg His Glu Ala Leu Ser Thr Cys Val Ser
225          230          235          240

```



```

      35      40      45
Ile Ile Ile Ile Ser Leu Ile Trp Ile Thr Pro Ala Leu His Thr Pro
  50      55      60
Met Tyr Phe Phe Leu Val Asn Leu Ser Phe Leu Glu Met Cys Tyr Thr
  65      70      75      80
Thr Ser Val Val Pro Leu Leu Val His Leu Leu Val Glu Thr Lys Thr
      85      90      95
Ile Ser Val Gly Gly Cys Ala Thr Gln Met Tyr Ile Phe Ala Ile Leu
      100      105      110
Gly Leu Thr Glu Cys Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe
      115      120      125
Val Ala Ile Cys Tyr Pro Leu His Tyr Thr Leu Phe Met Gly Pro Arg
      130      135      140
Val Cys Leu Lys Leu Ala Ala Ala Ser Trp Phe Thr Gly Val Val Val
      145      150      155      160
Glu Ser Ala Gln Ile Thr Leu Ile Phe Thr Leu Pro Phe Cys Gly Thr
      165      170      175
Gly Lys Ile Pro Thr Leu Phe Cys Asp Ile Met Pro Val Leu Lys Leu
      180      185      190
Ala Cys Ile Asp Thr Ser Gln Ile Glu Ile Val Met Phe Ser Leu Ser
      195      200      205
Val Leu Phe Ile Val Ser Pro Cys Phe Leu Ile Leu Cys Ser His Met
      210      215      220
His Ile Pro Val Thr Ile Leu Arg Ile Pro Ser Ala Ala Gly Arg His
      225      230      235      240
Lys Ala Phe Ser Thr Cys Ser Ser His Ile Leu Val Val Ser Leu Phe
      245      250      255
Tyr Gly Thr Ala Leu Phe Thr Tyr Leu Gln Pro Lys Thr Ala His Thr
      260      265      270
Pro Glu Thr Asp Lys Ala Thr Ala Leu Met Tyr Thr Met Val Thr Pro
      275      280      285
Ala Leu Asn Pro Val Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu
      290      295      300
Ala Phe Gln Arg Ile Thr Gln Arg Asn Ser Leu Arg Gln Thr
      305      310      315

```

&lt;210&gt; 1946

&lt;211&gt; 291

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g864 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(291)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1946

```

Ser Met Tyr Leu Val Thr Met Leu Arg Asn Leu Phe Ile Ile Leu Ala
  1      5      10      15
Gly Ser Ser Asp Pro His Phe His Thr Pro Met Tyr Phe Phe Leu Ser
      20      25      30
Asn Leu Ser Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro Lys
      35      40      45
Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly
      50      55      60
Cys Leu Thr Gln Met Ser Phe Phe Val Leu Phe Ala Cys Ile Glu Asp
      65      70      75      80
Met Leu Leu Thr Leu Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
      85      90      95

```



```

Ile Cys His Pro Leu His Tyr Arg Val Ile Met Asn Pro His Leu Cys
      100      105      110
Val Phe Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
      115      120      125
Leu His Ser Trp Ile Val Leu His Asn Ser Pro Phe Gln Glu Cys Gly
      130      135      140
Asn Leu Xaa Phe Phe Phe Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala
      145      150      155      160
Cys Ser Asp Ser Ile Ile Asn Asn Ile Leu Cys Ile Leu Asp Ile Pro
      165      170      175
Ile Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys
      180      185      190
Ile Val Ser Ser Ile Pro Arg Ile Pro Ser Ser Asp Gly Lys Tyr Lys
      195      200      205
Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr
      210      215      220
Glu Thr Gly Ile Gly Val Tyr Leu Thr Ser Ala Val Ser Ser Ser Pro
      225      230      235      240
Arg Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Ile Pro Met
      245      250      255
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile His Ser Ala
      260      265      270
Leu Trp Arg Leu Arg Ser Arg Thr Val Lys Ser His Asp Leu Phe His
      275      280      285
Pro Phe Ser
      290

```

&lt;210&gt; 1947

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g865 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(327)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1947

```

Met Asp Val Ser Ile Phe Leu Leu Leu Gly Thr Thr Glu Asp Pro Glu
  1          5          10          15
Arg Gln Pro Val Leu Thr Gly Leu Phe Leu Ser Met Cys Leu Val Thr
      20          25          30
Val Leu Gly Lys Leu Leu Ile Met Leu Ala Phe Ser Pro Asp Ser His
      35          40          45
Leu His Thr His Met Tyr Phe Leu Ser Asn Leu Ser Leu Pro Asp
      50          55          60
Ile Gly Phe Thr Ser Thr Ile Val Pro Lys Met Ile Ala Asp Ile Gln
      65          70          75          80
Ser His Ser Arg Val Ile Ser Tyr Ala Gly Arg Leu Thr Gln Met Ser
      85          90          95
Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asp Met Leu Leu Ser Val
      100          105          110
Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu Tyr His Ser
      115          120          125
Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Leu Leu Leu Phe Phe
      130          135          140
Phe Phe Leu Ser Leu Leu Asp Thr Gln Leu His Asn Leu Ile Ala Leu
      145          150          155          160
Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Asp

```

```

                165                170                175
Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Asn Asn
                180                185                190
Ile Ile Val Tyr Phe Pro Ala Val Ile Phe Val Phe Leu Pro Ile Ser
                195                200                205
Gly Thr Leu Phe Ser Tyr Lys Thr Val Ser Ser Ile Leu Arg Val Ser
                210                215                220
Ser Ser Gly Gly Lys Tyr Lys Thr Phe Ser Thr Cys Gly Ser His Leu
225                230                235
Ser Val Ile Cys Xaa Phe Tyr Gly Thr Gly Val Gly Gly Tyr Leu Ser
                245                250                255
Ser Asp Val Ser Ser Ser Leu Arg Lys Ala Ala Val Ala Ser Val Met
                260                265                270
Tyr Lys Met Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg
                275                280                285
Asn Arg Asp Met Lys Ser Val Leu Arg Arg Pro His Gly Ser Thr Val
                290                295                300
Xaa Ser Gln Tyr Leu Leu Ile Cys Ser Ile Pro Phe Val Gly Trp Val
305                310                315
Lys Lys Gly Ser Lys Val Lys
                325

```

&lt;210&gt; 1948

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g866 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1948

```

Met Gly Asp Lys Gly Thr Gly Asn His Ser Asp Val Thr Asp Phe Ile
1          5          10          15
Leu Glu Gly Phe Arg Val Arg Pro Glu Phe Tyr Ile Leu Leu Phe Phe
                20          25          30
Leu Phe Leu Leu Ile Tyr Ser Met Val Leu Leu Gly Asn Ile Ser Val
                35          40          45
Met Thr Ile Ile Val Thr Asp Ser Gln Leu Asn Thr Pro Met Tyr Phe
50          55          60
Phe Leu Gly Asn Leu Ser Phe Ile Asp Val Ser Tyr Ser Thr Val Ile
65          70          75          80
Ala Pro Lys Ala Met Ala His Phe Leu Ser Glu Lys Lys Thr Val Ser
                85          90          95
Phe Ala Gly Cys Val Ala Gln Leu Phe Leu Phe Ala Leu Phe Ile Val
100          105          110
Thr Glu Gly Phe Val Leu Ala Ala Met Ala Tyr Asp Arg Phe Ser Ala
115          120          125
Ile Cys Asn Pro Leu Leu His Ser Val His Met Ser Arg Arg Leu Cys
130          135          140
Thr Gln Leu Val Ala Gly Ser Tyr Phe Cys Gly Trp Ala Ser Ser Ile
145          150          155          160
Leu Gln Val Ser Val Thr Phe Ser Val Ser Phe Cys Ala Ser Arg Val
165          170          175
Ile Ala His Phe Tyr Cys Asp Ser Tyr Gln Ile Glu Lys Ile Ser Cys
180          185          190
Ser Asn Leu Phe Val Asn Lys Met Val Ser Leu Ser Leu Ser Val Ile
195          200          205
Ile Ile Leu Pro Thr Ile Val Val Ile Ile Val Ser Tyr Leu Tyr Ile
210          215          220
Val Ser Ser Val Leu Lys Ile Pro Ser Ser Glu Gly Arg Lys Lys Asp
225          230          235          240

```

Phe Ser Thr Cys Ser Ser His Arg Gly Val Val Ser Leu Leu  
245 250

<210> 1949

<211> 335

<212> PRT

<213> Unknown (H38g867 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1949

Tyr	Thr	Asp	Pro	Gln	Asn	Leu	Thr	Asp	Ala	Ser	Lys	Tyr	Leu	Leu	Leu	1	5	10	15
Glu	Leu	Ser	Glu	Asp	Pro	Lys	Leu	Gln	Leu	Ala	Leu	Ser	Gly	Arg	Glu	20	25	30	
Pro	Cys	Thr	Cys	Thr	Xaa	Ser	Leu	Val	Leu	Glu	Asn	Leu	Leu	Ile	Ile	35	40	45	
Leu	Ala	Val	Ser	Ser	Asp	Phe	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	50	55	60	
Leu	Ser	Asn	Leu	Ser	Leu	Ala	Asp	Ile	Gly	Phe	Thr	Ser	Asn	Thr	Val	65	70	75	80
Pro	Lys	Met	Ile	Val	Asp	Ile	Gln	Ser	His	Ser	Arg	Val	Ile	Ser	Tyr	85	90	95	
Ala	Gly	Cys	Leu	Thr	Gln	Met	Ser	Leu	Phe	Ala	Val	Phe	Gly	Gly	Met	100	105	110	
Glu	Glu	Asn	Met	Leu	Leu	Ser	Val	Arg	Ala	Tyr	Asp	Arg	Phe	Val	Ala	115	120	125	
Ile	Cys	His	Pro	Leu	Tyr	Tyr	Ser	Ala	Ile	Met	Asn	Pro	Cys	Phe	Cys	130	135	140	
Gly	Phe	Leu	Val	Leu	Phe	Phe	Phe	Leu	Ser	Leu	Leu	Asp	Ser	Gln		145	150	155	160
Leu	His	Asn	Leu	Ile	Ala	Leu	Gln	Met	Thr	Cys	Ile	Lys	Asp	Val	Glu	165	170	175	
Ile	Pro	Asn	Phe	Phe	Trp	Asp	Pro	Ser	Gln	Leu	Pro	His	Leu	Ala	Cys	180	185	190	
Cys	Asp	Thr	Phe	Thr	Asn	Asn	Ile	Val	Met	Tyr	Phe	Leu	Ala	Ala	Ile	195	200	205	
Phe	Gly	Phe	Leu	Pro	Ile	Ser	Arg	Ile	Ile	Phe	Ser	Tyr	Tyr	Lys	Ile	210	215	220	
Val	Ser	Ser	Met	Leu	Ser	Val	Ser	Ser	Ser	Gly	Gly	Lys	Tyr	Lys	Ala	225	230	235	240
Phe	Ser	Thr	Cys	Gly	Ser	Pro	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gly	245	250	255	
Lys	Val	Val	Gly	Gly	Tyr	Leu	Ser	Ser	Asp	Val	Ser	Ser	Ser	Pro	Arg	260	265	270	
Lys	Gly	Ala	Val	Ala	Ser	Met	Met	Tyr	Thr	Val	Ile	Thr	Pro	Met	Leu	275	280	285	
Asn	Pro	Phe	Ile	Tyr	Arg	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Arg	Val	Leu	290	295	300	
Trp	Trp	Leu	His	Gly	Arg	Thr	Val	Xaa	Ser	His	Tyr	Phe	Ile	Ile	Cys	305	310	315	320
Ser	Ile	Pro	Phe	Val	Val	Trp	Val	Lys	Lys	Gly	Ser	Lys	Val	Lys		325	330	335	

<210> 1950

<211> 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g868 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(317)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1950

```

Thr Gly Val Xaa Glu Phe Leu Leu Leu Gly Leu Ser Glu Asp Pro Glu
 1          5          10          15
Leu Gln Pro Ala Leu Ala Leu Leu Ser Leu Ser Leu Ser Met Tyr Leu
          20          25          30
Val Thr Val Leu Arg Asn Leu Phe Ser Ile Leu Ala Val Ser Ser Asp
          35          40          45
Cys Pro Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu Cys Trp
          50          55          60
Pro Asp Ile Gly Phe Thr Ser Ala Met Val Pro Lys Met Ile Val Asp
          65          70          75          80
Thr Gln Ser His Ser Arg Val Ile Ser His Ala Gly Cys Leu Thr Gln
          85          90          95
Met Ser Phe Leu Leu Val Ala Cys Ile Glu Gly Met Leu Leu Thr
          100          105          110
Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys Arg Pro Leu His Tyr
          115          120          125
Pro Val Ile Val Asn Pro His Leu Cys Val Phe Phe Val Leu Val Ser
          130          135          140
Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu
          145          150          155          160
Gln Leu Thr Ile Ile Lys Asn Val Glu Ile Ser Asn Leu Val Cys Asp
          165          170          175
Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser Asp Ser Val Ile Asn Asn
          180          185          190
Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly Phe Leu Pro Ile Ser
          195          200          205
Gly Ile Phe Leu Ser Tyr Tyr Lys Ile Val Pro Ser Ile Leu Arg Ile
          210          215          220
Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Cys His
          225          230          235          240
Leu Ala Val Val Cys Trp Phe Tyr Gly Thr Gly Ile Gly Met Tyr Leu
          245          250          255
Thr Ser Ala Val Ser Pro Pro Pro Arg Asn Gly Val Val Ala Ser Val
          260          265          270
Met Tyr Ala Val Val Thr Pro Met Leu Asn Leu Phe Ile Cys Ser Leu
          275          280          285
Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg Leu Gly Ser Arg Ala
          290          295          300
Phe Glu Ser Pro Xaa Ser Val Pro Ser Phe Phe Leu Cys
          305          310          315

```

&lt;210&gt; 1951

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g869 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1951

```

Met Gly Asp Arg Gly Thr Ser Asn His Ser Glu Met Thr Asp Phe Ile
 1          5          10          15
Leu Ala Gly Phe Arg Val Arg Pro Glu Leu His Ile Leu Leu Phe Leu
 20          25          30
Leu Phe Leu Phe Val Tyr Ala Met Ile Leu Leu Gly Asn Val Gly Met
 35          40          45
Met Thr Ile Ile Met Thr Asp Pro Arg Leu Asn Thr Pro Met Tyr Phe
 50          55          60
Phe Leu Gly Asn Leu Ser Phe Ile Asp Leu Phe Tyr Ser Ser Val Ile
 65          70          75          80
Glu Pro Lys Ala Met Ile Asn Phe Trp Ser Glu Asn Lys Ser Ile Ser
 85          90          95
Phe Ala Gly Cys Val Ala Gln Leu Phe Leu Phe Ala Leu Leu Ile Val
 100          105          110
Thr Glu Gly Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe Ile Ala
 115          120          125
Ile Cys Asn Pro Leu Leu Tyr Ser Val Gln Met Ser Thr Arg Leu Cys
 130          135          140
Thr Gln Leu Val Ala Gly Ser Tyr Phe Cys Gly Cys Ile Ser Ser Val
 145          150          155          160
Ile Gln Thr Ser Met Thr Phe Thr Leu Ser Phe Cys Ala Ser Arg Ala
 165          170          175
Val Asp His Phe Tyr Cys Asp Ser Arg Pro Leu Gln Arg Leu Ser Cys
 180          185          190
Ser Asp Leu Phe Ile His Arg Met Ile Ser Phe Ser Leu Ser Cys Ile
 195          200          205
Ile Ile Leu Pro Thr Ile Ile Val Ile Ile Val Ser Tyr Met Tyr Ile
 210          215          220
Val Ser Thr Val Leu Lys Ile His Ser Thr Glu Gly His Lys Lys Ala
 225          230          235          240
Phe Ser Thr Cys Ser Ser His Leu Gly Val Val Ser Val Leu Tyr Gly
 245          250          255
Ala Val Phe Phe Met Tyr Leu Thr Pro Asp Arg Phe Pro Glu Leu Ser
 260          265          270
Lys Val Ala Ser Leu Cys Tyr Ser Leu Val Thr Pro Met Leu Asn Pro
 275          280          285
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Gln Glu Ala Leu Lys Lys
 290          295          300
Phe Leu Glu Lys Lys Asn Ile Ile Leu
305          310

```

&lt;210&gt; 1952

&lt;211&gt; 277

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g870 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(277)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1952

```

His Ser Phe Leu Arg Tyr Ile Phe Ala Lys Leu Thr Gly Glu Pro Glu
 1          5          10          15
Leu Gln Pro Ser Leu Tyr Ser Val Phe Trp Ser Pro Xaa Leu Gly Xaa
 20          25          30
Pro His His Thr Ser Met Tyr Pro Leu His Thr Ser Met Tyr Leu Tyr
 35          40          45
Ile Phe Ser Phe Ser Phe Ile Gly Phe Phe Tyr Ser Ser Val Ile Ser

```

50	55	60
Pro Gln Met Thr Ile Ser Val Thr Glu Lys Asn Ile Ile Thr Tyr		
65	70	75
Val Thr Ser Asn Thr Gln Pro Phe Pro Leu Cys Phe Phe Val Ile Ser		80
	85	90
Asp Tyr Ser Ile Phe Ile Pro Leu Ala Leu Asp His Tyr Glu Ala Met		95
	100	105
Thr Leu Pro Val Ser Phe Ile Ser Phe Ile Ser Val Asp Gly Ser Xaa		110
	115	120
Val Ile Glu Phe Ala Asp Ala Val Val His Gln Gly Ser Met Asp Gln		125
	130	135
Phe Leu Phe Cys Asp His Ser Cys Met Ser Leu Asn Leu Cys Asn Ile		140
145	150	155
Gly Pro Leu Gln Ala Ala Xaa Ile Ser Thr Tyr Val Ser Lys Gln Val		160
	165	170
Asp Leu Tyr Ser Xaa Glu Pro Ala Val Tyr His Ala Val Leu Ser Phe		175
	180	185
Ser Tyr Phe Val Phe Ile Leu Phe Asn Ile Phe His Xaa Pro Ser Gly		190
	195	200
Pro Asn Leu Gln Pro Asp Ser Ile Asn Leu Phe Ile Ser Phe Phe Gly		205
	210	215
Leu Gly Thr Phe Met Tyr Leu Arg Ser Pro Glu Ala Met Gly Xaa Cys		220
225	230	235
Lys Phe Thr Val Ser Phe Thr Lys Met Gly Pro Val Met Asn Gly Leu		240
	245	250
Phe Asn Thr Leu Arg Asn Lys Thr Ile Xaa Leu Ala Ala Met Lys Pro		255
	260	265
Leu Ser Phe Ser Ser		270
	275	

&lt;210&gt; 1953

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g871 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(335)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1953

Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu Leu		
1	5	10
Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Val Ala Gly Leu Phe		15
	20	25
Leu Ser Met Cys Leu Val Thr Val Leu Glu Asn Leu Leu Ile Ile Leu		30
	35	40
Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu		45
	50	55
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro		60
65	70	75
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala		80
	85	90
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Arg Glu		95
	100	105
Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile		110
	115	120
Cys His Pro Pro Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly		125
	130	135
		140

Phe Leu Asp Leu Leu Ser Leu Phe Phe Phe Phe Phe Phe Phe Ser  
 145 150 155 160  
 Leu Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met  
 165 170 175  
 Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Cys  
 180 185 190  
 Cys Asp Thr Phe Thr Arg Asn Ile Asn Met Tyr Phe Pro Ala Ala Val  
 195 200 205  
 Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Cys Lys Ile  
 210 215 220  
 Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala  
 225 230 235 240  
 Phe Thr Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly  
 245 250 255  
 Thr Gly Val Gly Gly Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg  
 260 265 270  
 Lys Arg Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu  
 275 280 285  
 Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Ser Val Leu  
 290 295 300  
 Arg Arg Pro His Ser Ser Ala Val Xaa Ser Gln Tyr Leu Leu Ile Cys  
 305 310 315 320  
 Ser Ile Pro Phe Val Gly Trp Val Lys Lys Gly Ser Lys Val Lys  
 325 330 335

&lt;210&gt; 1954

&lt;211&gt; 342

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g872 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(342)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1954

Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu Leu  
 1 5 10 15  
 Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Val Ala Gly Leu Phe  
 20 25 30  
 Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu  
 35 40 45  
 Ala Val Ser Pro Asp Ser His Leu Pro Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro  
 65 70 75 80  
 Lys Met Ser Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala  
 85 90 95  
 Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu  
 100 105 110  
 Lys Arg His Ala Pro Glu Val Met Ala Tyr Asp Leu Phe Val Pro Ile  
 115 120 125  
 Cys His Leu Leu Tyr Arg Ser Thr Ile Leu Asn Pro Phe Val Arg Gly  
 130 135 140  
 Phe Leu Asn Leu Leu Ser Leu Phe Val Gly Phe Phe Phe Ser Leu  
 145 150 155 160  
 Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr  
 165 170 175  
 Tyr Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln

<400> 1955															
Met 1	Asp	Leu	Gly	Asn 5	Ser	Gly	Asn	Asp 10	Ser	Val	Val	Thr	Lys	Phe 15	Val
Leu	Leu	Gly	Leu 20	Thr	Glu	Thr	Ala	Ala 25	Leu	Gln	Pro	Ile	Leu 30	Phe	Val
Ile	Phe	Leu 35	Leu	Ala	Tyr	Val	Thr 40	Thr	Ile	Gly	Gly	Thr 45	Leu	Ser	Ile
Leu	Ala 50	Ala	Ile	Leu	Met	Glu 55	Thr	Lys	Leu	His	Ser 60	Pro	Met	Tyr	Phe
Phe 65	Leu	Gly	Asn	Leu 70	Ser	Leu	Pro	Asp	Val 75	Gly	Cys	Val	Ser	Val	Thr 80
Val	Pro	Ala	Met 85	Leu	Ser	His	Phe	Ile 90	Ser	Asn	Asp	Arg	Ser	Ile 95	Pro
Tyr	Lys	Ala	Cys 100	Leu	Ser	Glu	Leu	Phe 105	Phe	Phe	His	Leu	Leu 110	Ala	Gly
Ala	Asp	Cys 115	Phe	Leu	Leu	Thr	Ile 120	Met	Ala	Tyr	Asp	Arg	Tyr 125	Leu	Ala
Ile	Cys 130	Gln	Ser	Leu	Thr	Tyr 135	Ser	Ser	Arg	Met	Ser 140	Trp	Gly	Ile	Gln
Gln 145	Ala	Leu	Val	Gly 150	Met	Ser	Trp	Val	Phe 155	Ser	Phe	Thr	Asn	Ala 160	Leu
Thr	Gln	Thr	Val 165	Ala	Leu	Ser	Pro	Leu	Asn 170	Phe	Cys	Gly	Pro	Asn 175	Val
Ile	Asn	His 180	Phe	Tyr	Cys	Asp	Leu 185	Pro	Gln	Pro	Phe	Gln	Leu 190	Ser	Cys
Ala	Ser	Val 195	His	Leu	Asn	Gly	Gln 200	Leu	Leu	Phe	Val	Ala 205	Ala	Ala	Phe
Met	Gly 210	Val	Ala	Pro	Leu	Val 215	Leu	Ile	Thr	Val	Ser 220	Tyr	Ala	His	Val
Ala 225	Ala	Ala	Val	Leu 230	Arg	Ile	Arg	Ser	Ala 235	Glu	Gly	Lys	Lys	Lys	Ala 240



<210> 1957  
<211> 331

<212> PRT  
 <213> Unknown (H38g875 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(331)  
 <223> Xaa = Any Amino Acid

<400> 1957  
 His Thr Glu Pro Arg Asn Leu Thr Ser Val Xaa Glu Phe Leu Leu Leu  
 1 5 10 15  
 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Leu Leu Ala Leu Leu Ser  
 20 25 30  
 Leu Ser Leu Ser Met His Leu Val Met Val Leu Arg Asn Leu Leu Asn  
 35 40 45  
 Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Thr Tyr Phe  
 50 55 60  
 Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr  
 65 70 75 80  
 Val Pro Asn Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser  
 85 90 95  
 His Ala Asp Cys Leu Thr Gln Ile Ser Phe Leu Leu Leu Phe Ala Cys  
 100 105 110  
 Ile Glu Gly Met Leu Leu Thr Val Met Thr Tyr Asp Cys Phe Val Ala  
 115 120 125  
 Ile Cys Cys Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys  
 130 135 140  
 Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln  
 145 150 155 160  
 Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu  
 165 170 175  
 Ile Ser Asn Ser Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys  
 180 185 190  
 Ser Asp Ser Val Ile Asn Ser Ile Phe Met His Phe His Asn Thr Met  
 195 200 205  
 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Val Ser Tyr Tyr Lys Ile  
 210 215 220  
 Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala  
 225 230 235 240  
 Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly  
 245 250 255  
 Thr Gly Ile Gly Val Tyr Leu Thr Ser Ala Leu Ser Pro Pro Pro Arg  
 260 265 270  
 Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu  
 275 280 285  
 Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu  
 290 295 300  
 Trp Arg Leu Leu Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro  
 305 310 315 320  
 Phe Ser Cys Val Gly Lys Gly Asn His Ile Lys  
 325 330

<210> 1958  
 <211> 322  
 <212> PRT  
 <213> Unknown (H38g876 protein)

<220>  
 <223> Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(322)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1958

```

His Arg Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
 1           5           10           15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Leu Leu Ser
          20           25           30
Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser
          35           40           45
Ile Leu Ala Val Arg Ser Asp Ser Pro Leu His Thr Pro Ile Tyr Phe
          50           55           60
Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
65          70           75           80
Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
          85           90           95
His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
          100          105          110
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala
          115          120          125
Ile Cys His Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
          130          135          140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
145          150          155          160
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
          165          170          175
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Phe Ala Cys
          180          185          190
Ser Asp Ser Ile Ile Asn Ser Ile Phe Ile Tyr Phe His Ser Thr Met
          195          200          205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile
          210          215          220
Ile Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
225          230          235          240
Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly
          245          250          255
Thr Asp Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg
          260          265          270
Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu
          275          280          285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
          290          295          300
Trp Gly Leu His Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro
305          310          315          320
Phe Ser

```

&lt;210&gt; 1959

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g877 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1959

```

Met Gln Pro Glu Ser Gly Ala Asn Gly Thr Val Ile Ala Glu Phe Ile
 1           5           10           15
Leu Leu Gly Leu Leu Glu Ala Pro Gly Leu Gln Pro Val Val Phe Val

```

```
<210> 1960
<211> 323
<212> PRT
<213> Unknown (H38a878 protein)
```

<220>  
<223> Synthetic construct

<400> 1960															
Met	Thr	Asp	Tyr	Asn	Glu	Pro	Met	Glu	Pro	Met	Glu	Asp	Lys	Asn	Gln
1				5					10					15	
Thr	Val	Val	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Leu	Thr	Asp	His	Pro	Tyr
			20					25					30		
Gln	Lys	Ile	Val	Leu	Phe	Phe	Met	Phe	Leu	Phe	Val	Tyr	Leu	Ile	Thr
		35					40					45			
Leu	Gly	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu	Ile	Trp	Ile	Asp	Pro	Arg
	50					55					60				
Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	His	Leu	Ser	Phe	Val	Asp
65				70						75				80	
Ile	Cys	Ser	Ser	Ser	Ser	Val	Val	Pro	Lys	Met	Leu	Cys	Asn	Ile	Phe
				85					90					95	
Ala	Glu	Lys	Lys	Asp	Ile	Thr	Phe	Leu	Gly	Cys	Ala	Ala	Gln	Met	Trp
			100					105					110		

```

Phe Phe Gly Leu Phe Glu Ala Ala Glu Cys Phe Leu Leu Ala Ala Met
    115          120          125
Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Thr Leu
    130          135          140
Ile Met Ser Gln Gln Val Cys Met Gln Leu Val Val Gly Pro Tyr Ala
    145          150          155          160
Met Ala Leu Ile Ser Thr Met Thr His Thr Ile Phe Thr Phe Cys Leu
    165          170          175
Pro Phe Cys Gly Ser Asn Ile Ile Asn His Phe Phe Cys Asp Ile Phe
    180          185          190
Pro Leu Leu Ser Leu Ala Cys Ala Asp Thr Trp Val Asn Lys Phe Val
    195          200          205
Leu Phe Val Leu Ala Gly Ala Ile Gly Val Leu Ser Gly Leu Ile Ile
    210          215          220
Met Val Ser Tyr Ile Cys Ile Leu Met Thr Ile Leu Lys Ile Gln Thr
    225          230          235          240
Ala Asp Gly Lys Gln Lys Ala Phe Phe Thr Cys Phe Ser His Leu Ala
    245          250          255
Ala Val Ser Ile Leu Tyr Gly Thr Leu Phe Leu Ile Tyr Val Arg Pro
    260          265          270
Ser Ser Ser Ser Ser Leu Gly Ile Tyr Lys Val Ile Ser Leu Phe Tyr
    275          280          285
Thr Val Val Ile Pro Met Val Asn Pro Leu Ile Tyr Ser Leu Arg Asn
    290          295          300
Lys Glu Val Lys Asp Ala Phe Arg Arg Lys Ile Glu Arg Lys Lys Phe
    305          310          315          320
Ile Ile Gly

```

<210> 1961  
 <211> 229  
 <212> PRT  
 <213> Unknown (H38g879 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(229)  
 <223> Xaa = Any Amino Acid

```

<400> 1961
Phe Phe Ser Leu Asp Leu Ile Arg Ser Gln Ala Asn Thr Met Ser Lys
  1          5          10          15
Lys His Trp Thr Ala Ile Ala Glu Phe Ile Pro Leu Gly Pro Thr Asp
    20          25          30
Gln Ala Glu Leu Gln Leu Val Leu Phe Phe Phe Thr Phe Leu Val Ile
    35          40          45
Tyr Leu Ile Met Val Met Gly Asn Leu Ser Met Ile Leu Ile Ile Arg
    50          55          60
Ser Asp Xaa Lys Leu His Ile Pro Met Tyr Phe Phe Leu Ser His Leu
    65          70          75          80
Ser Phe Ala Val Leu Cys Tyr Thr Leu Asn Val Thr Pro Gln Ile Leu
    85          90          95
Val Asn Phe Leu Ser Lys Arg Lys Thr Ile Phe Phe Ile Gly Cys Val
    100          105          110
Ser Val Leu Xaa Phe Tyr Phe Phe Ile Val Leu Ile Ile Arg Asp Tyr
    115          120          125
His Met Leu Thr Val Met Ala Asn Asp Cys Tyr Met Ala Ile Cys Lys
    130          135          140
Pro Leu Leu Tyr Gly Ser Lys Met Ser Arg Phe Val Cys Leu Ser Leu

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145          150          155          160
Ala Ser Val Ser Xaa Ile Tyr Gly Phe Ala Asn Tyr Leu Ala Gln Thr
          165          170          175
Ile Arg Met Leu Leu Leu Ser Phe Xaa Gly Ser Asn Glu Ile Asn His
          180          185          190
Phe Asp Cys Ala Asp Pro Pro Leu Leu Val Leu Pro Cys Ala Gly Thr
          195          200          205
Cys Val Lys Xaa Ile Ile Met Leu Met Glu Pro His Cys Leu Leu Lys
          210          215          220
Pro Gly Tyr Ile Leu
225

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&lt;210&gt; 1962

&lt;211&gt; 286

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g880 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1962

```

Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser Ile Leu Ala Val
1          5          10          15
Ser Ser Asp Ser His Pro His Thr Pro Met Tyr Phe Phe Leu Ser Asn
          20          25          30
Leu Cys Trp Ala Asp Ile Gly Phe Thr Leu Ala Thr Val Pro Lys Met
          35          40          45
Ile Val Asp Met Gly Ser His Ser Arg Val Ile Ser Tyr Gly Gly Cys
          50          55          60
Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys Ile Val Asp Met
65          70          75          80
Phe Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys Arg Pro
          85          90          95
Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys Val Phe Phe Val
          100          105          110
Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp
          115          120          125
Ile Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser Asn Phe
          130          135          140
Val Cys Glu Pro Ser Gln Leu Leu Lys Leu Ala Ser Tyr Asp Ser Val
145          150          155          160
Ile Asn Ser Ile Phe Ile Tyr Phe Asp Asn Thr Met Phe Gly Phe Leu
          165          170          175
Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro Ser Ile
          180          185          190
Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Ala Cys
          195          200          205
Gly Cys His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly
          210          215          220
Val Tyr Leu Thr Ser Ala Val Ala Pro Pro Leu Arg Asn Gly Met Val
225          230          235          240
Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Pro Phe Ile
          245          250          255
Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Trp Arg Val Cys
          260          265          270
Asn Lys Thr Val Glu Ser His Asp Leu Phe His Pro Phe Ser
          275          280          285

```

&lt;210&gt; 1963

&lt;211&gt; 325

&lt;212&gt; PRT

<223> Xaa = Any Amino Acid

<223> Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(314)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1964

```

Met Glu Thr Glu Asn Asn Thr Thr Val Thr Glu Phe Ile Ile Leu Gly
 1          5          10          15
Leu Thr Asp Asn Pro Met Leu Cys Ala Ile Phe Phe Val Phe Phe Leu
          20          25          30
Ala Val Tyr Ile Val Thr Ile Pro Gly Asn Ile Ser Ile Ile Leu Leu
          35          40          45
Ile Gln Ser Ser Pro Gln Leu His Thr Leu Met Tyr Leu Phe Leu Ser
          50          55          60
His Leu Ala Ser Val Asp Ile Gly Tyr Ser Ile Ser Val Thr Pro Ile
          65          70          75          80
Ile Leu Ile Asn Phe Leu Arg Glu Lys Thr Thr Ile Pro Val Thr Gly
          85          90          95
Cys Ile Ala Gln Leu Gly Ser Asp Val Met Phe Gly Thr Thr Glu Cys
          100          105          110
Phe Leu Leu Asp His Tyr Val Ala Ile Cys Ser Pro Leu Leu Tyr Ser
          115          120          125
Ile Gln Met Pro Pro Val Val Cys Phe Leu Leu Leu Gly Ala Ser Tyr
          130          135          140
Leu Gly Gly Cys Leu Asn Ala Ser Ser Phe Thr Gly Cys Leu Met Asn
          145          150          155          160
Leu Ser Phe Cys Gly Pro Asn Lys Ile Asn His Phe Phe Cys Asp Leu
          165          170          175
Phe Pro Leu Leu Lys Leu Ser Cys Gly His Val Tyr Ile Ala Glu Ile
          180          185          190
Ser Pro Ala Ile Ser Ser Ala Ser Val Leu Ile Ser Thr Leu Phe Thr
          195          200          205
Ile Ile Val Ser Tyr Ile Tyr Ile Leu His Ser Ile Leu Lys Val Cys
          210          215          220
Ser Thr Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ala Ser His Leu
          225          230          235          240
Thr Ala Val Thr Leu Phe Tyr Gly Thr Ile Leu Phe Val Tyr Val Met
          245          250          255
Pro Lys Ser Ser Tyr Ser Ala Asp Gln Val Lys Val Ala Phe Val Ile
          260          265          270
Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg
          275          280          285
Asn Lys Glu Val Lys Glu Ala Met Arg Lys Leu Met Ala Arg Thr His
          290          295          300
Trp Phe Ser Xaa Ile Lys Ser Val Xaa Ser
          305          310

```

&lt;210&gt; 1965

&lt;211&gt; 202

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g883 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(202)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1965

```

Ile Phe Ala Ile Leu Thr Thr Ile Asp Cys Cys Val Phe Val Trp Glu
 1          5          10          15

```



Phe Leu Glu Cys Thr Val Phe Val Asn Lys Arg Ala Cys Ala Gln Leu  
 20 25 30  
 Ala Cys Gly Ala Phe Cys Ile Gly Leu Ile Met Thr Val Val Xaa Ile  
 35 40 45  
 Thr Thr Val Ser Gln Arg Tyr Lys Arg Ser Thr Tyr Ala Ile Val Asp  
 50 55 60  
 Cys Phe Leu Phe Asp Thr Leu Leu Val Met Lys Leu Ser Cys Ile Asp  
 65 70 75 80  
 Asn Thr Ile Tyr Glu Ile Ile Gln Tyr Phe Ile His His Thr Cys Val  
 85 90 95  
 Gln Val Ser Met Gly Leu Val Cys Ile Ser Tyr Ile Asp Ile Pro Val  
 100 105 110  
 Thr Ser Ile Val Leu Arg Ile Ser Xaa Ser Glu Val Phe Ala Thr Cys  
 115 120 125  
 Val Pro Gln Pro Pro Pro His His Gly His Cys Leu Tyr Val Cys Ala  
 130 135 140  
 Cys Thr Ala Tyr Leu Lys His Lys Pro Met Asn Ser Ile Glu Lys Gly  
 145 150 155 160  
 Leu Leu Xaa Glu Thr Tyr Ile Ile Ile Ile His Ser Ala Ser Gly Pro  
 165 170 175  
 Val Val Tyr Thr Leu Arg Tyr Met Glu Ala Lys Asp Thr Met Tyr Arg  
 180 185 190  
 Ala Val Asp Arg Asn Ile Ser Xaa Gln Ile  
 195 200

&lt;210&gt; 1966

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g884 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1966

Met Glu Pro Glu Ala Gly Thr Asn Arg Thr Ala Val Ala Glu Phe Ile  
 1 5 10 15  
 Leu Leu Gly Leu Val Gln Thr Glu Glu Met Gln Pro Val Val Phe Val  
 20 25 30  
 Leu Leu Leu Phe Ala Tyr Leu Val Thr Thr Gly Gly Asn Leu Ser Ile  
 35 40 45  
 Leu Ala Ala Val Leu Val Glu Pro Lys Leu His Ala Pro Met Tyr Phe  
 50 55 60  
 Phe Leu Gly Asn Leu Ser Val Leu Asp Val Gly Cys Ile Thr Val Thr  
 65 70 75 80  
 Val Pro Ala Met Leu Gly Arg Leu Leu Ser His Lys Ser Thr Ile Ser  
 85 90 95  
 Tyr Asp Ala Cys Leu Ser Gln Leu Phe Phe His Leu Leu Ala Gly  
 100 105 110  
 Met Asp Cys Phe Leu Leu Thr Ala Met Ala Tyr Asp Arg Leu Leu Ala  
 115 120 125  
 Ile Cys Gln Pro Leu Thr Tyr Ser Thr Arg Met Ser Gln Thr Val Gln  
 130 135 140  
 Arg Met Leu Val Ala Ala Ser Leu Ala Cys Ala Phe Thr Asn Ala Leu  
 145 150 155 160  
 Thr His Thr Val Ala Met Ser Thr Leu Asn Phe Cys Gly Pro Asn Glu  
 165 170 175  
 Val Asn His Phe Tyr Cys Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys  
 180 185 190  
 Ser Ser Thr Gln Leu Asn Glu Leu Leu Leu Phe Ala Val Gly Phe Ile  
 195 200 205  
 Met Ala Gly Thr Pro Leu Val Leu Ile Ile Thr Ala Tyr Ser His Val

210	215	220
Ala Ala Ala Val Leu Arg Ile Arg Ser Val Glu Gly Arg Lys Lys Ala		
225	230	235
Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Cys Leu Phe Phe Gly		240
	245	250
Arg Gly Ile Phe Asn Tyr Met Arg Leu Gly Ser Glu Glu Ala Ser Asp		255
	260	265
Lys Asp Lys Gly Val Gly Val Phe Asn Thr Val Ile Asn Pro Met Leu		270
	275	280
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Pro Asp Val Gln Gly Ala Leu		285
	290	295
Trp Gln Ile Phe Leu Gly Arg Arg Ser Leu Thr		300
305	310	315

&lt;210&gt; 1967

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g885 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1967

Met Lys Arg Lys Asn Phe Thr Glu Val Ser Glu Phe Ile Phe Leu Gly	
1 5 10 15	
Phe Ser Ser Phe Gly Lys His Gln Ile Thr Leu Phe Val Val Phe Leu	
20 25 30	
Thr Val Tyr Ile Leu Thr Leu Val Ala Asn Ile Ile Ile Val Thr Ile	
35 40 45	
Ile Cys Ile Asp His His Leu His Thr Pro Met Tyr Phe Phe Leu Ser	
50 55 60	
Met Leu Ala Ser Ser Glu Thr Val Tyr Thr Leu Val Ile Val Pro Arg	
65 70 75 80	
Met Leu Leu Ser Leu Ile Phe His Asn Gln Pro Ile Ser Leu Ala Gly	
85 90 95	
Cys Ala Thr Gln Met Phe Phe Phe Val Ile Leu Ala Thr Asn Asn Cys	
100 105 110	
Phe Leu Leu Thr Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys Arg	
115 120 125	
Pro Leu Arg Tyr Thr Val Ile Met Ser Lys Gly Leu Cys Ala Gln Leu	
130 135 140	
Val Cys Gly Ser Phe Gly Ile Gly Leu Thr Met Ala Val Leu His Val	
145 150 155 160	
Thr Ala Met Phe Asn Leu Pro Phe Cys Gly Thr Val Val Asp His Phe	
165 170 175	
Phe Cys Asp Ile Tyr Pro Val Met Lys Leu Ser Cys Ile Asp Thr Thr	
180 185 190	
Ile Asn Glu Ile Ile Asn Tyr Gly Val Ser Ser Phe Val Ile Phe Val	
195 200 205	
Pro Ile Gly Leu Ile Phe Ile Ser Tyr Val Leu Val Ile Ser Ser Ile	
210 215 220	
Leu Gln Ile Ala Ser Ala Glu Gly Arg Lys Lys Thr Phe Ala Thr Cys	
225 230 235 240	
Val Ser His Leu Thr Val Val Ile Val His Cys Gly Cys Ala Ser Ile	
245 250 255	
Ala Tyr Leu Lys Pro Lys Ser Glu Ser Ser Ile Glu Lys Asp Leu Val	
260 265 270	
Leu Ser Val Thr Tyr Thr Ile Ile Thr Pro Leu Leu Asn Pro Val Val	
275 280 285	
Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Cys Arg Val Val	
290 295 300	

Gly Arg Asn Ile Ser  
305

<210> 1968

<211> 320

<212> PRT

<213> Unknown (H38g886 protein)

<220>

<223> Synthetic construct

<400> 1968

Met	Leu	Gln	Arg	Val	Gly	Glu	Met	Asp	Gly	Gly	Asn	Gln	Ser	Glu	Gly	1	5	10	15
Ser	Glu	Phe	Leu	Leu	Leu	Gly	Ile	Ser	Glu	Ser	Pro	Glu	Gln	Gln	Gln	20	25	30	
Met	Leu	Phe	Trp	Met	Phe	Leu	Val	Arg	Tyr	Leu	Val	Thr	Val	Leu	Gly	35	40	45	
Asn	Val	Leu	Ile	Ile	Leu	Ala	Ile	Ser	Ser	Asp	Ser	Arg	Leu	His	Thr	50	55	60	
Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn	Leu	Ser	Phe	Thr	Asp	Leu	Phe	Phe	65	70	75	80
Val	Thr	Asn	Thr	Ile	Pro	Lys	Met	Leu	Val	Asn	Leu	Gln	Ser	Gln	Asn	85	90	95	
Lys	Ala	Ile	Ser	Tyr	Thr	Gly	Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Leu	Val	100	105	110	
Ser	Leu	Val	Ala	Leu	Asp	Asn	Leu	Asn	Leu	Ala	Val	Met	Ala	Tyr	Asp	115	120	125	
Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Val	Thr	Ala	Met	Ile	130	135	140	
Pro	Gly	Leu	Cys	Ile	Leu	Leu	Leu	Ser	Leu	Cys	Trp	Val	Phe	Ser	Ala	145	150	155	160
Leu	Tyr	Gly	Leu	Ile	His	Ile	Leu	Leu	Met	Thr	Arg	Val	Thr	Phe	Cys	165	170	175	
Gly	Ser	Gln	Lys	Ile	His	Tyr	Leu	Phe	Cys	Glu	Met	Tyr	Phe	Leu	Leu	180	185	190	
Arg	Leu	Ala	Cys	Ser	Asn	Ile	His	Val	Asn	His	Thr	Val	Leu	Val	Ala	195	200	205	
Thr	Gly	Cys	Phe	Ile	Phe	Leu	Ile	Pro	Leu	Gly	Phe	Met	Ile	Thr	Ser	210	215	220	
Tyr	Ala	Arg	Ile	Val	Arg	Ala	Ile	Leu	Gln	Ile	Pro	Ser	Ala	Thr	Gly	225	230	235	240
Lys	Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Ala	Val	Val	Ser	245	250	255	
Leu	Phe	Tyr	Gly	Thr	Leu	Gly	Met	Val	Tyr	Leu	Gln	Pro	Leu	Gln	Thr	260	265	270	
Tyr	Ser	Met	Lys	Asp	Ser	Val	Ala	Thr	Val	Met	Tyr	Ala	Val	Val	Thr	275	280	285	
Pro	Met	Ile	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	His	290	295	300	
Gly	Ala	Leu	Gly	Arg	Leu	Arg	Gln	Gly	Lys	Ala	Phe	Gln	Lys	Leu	Thr	305	310	315	320

<210> 1969

<211> 276

<212> PRT

<213> Unknown (H38g887 protein)

<220>

<223> Synthetic construct

&lt;400&gt; 1969

```

Met Arg Arg Lys Asn Leu Thr Glu Val Thr Glu Phe Val Phe Leu Gly
 1          5          10          15
Phe Ser Arg Phe His Lys His His Ile Thr Leu Phe Val Val Phe Leu
 20          25          30
Ile Leu Tyr Thr Leu Thr Val Ala Gly Asn Ala Ile Ile Met Thr Ile
 35          40          45
Ile Cys Ile Asp Arg His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50          55          60
Met Leu Ala Ser Ser Lys Thr Val Tyr Thr Leu Phe Ile Ile Pro Gln
 65          70          75          80
Met Leu Ser Ser Phe Val Thr Gln Thr Gln Pro Ile Ser Leu Ala Gly
 85          90          95
Cys Thr Thr Gln Thr Phe Phe Phe Val Thr Leu Ala Ile Asn Asn Cys
100          105          110
Phe Leu Leu Thr Val Met Gly Tyr Asp His Tyr Met Ala Ile Cys Asn
115          120          125
Pro Leu Arg Tyr Arg Val Ile Thr Ser Lys Lys Val Cys Val Gln Leu
130          135          140
Val Cys Gly Ala Phe Ser Ile Gly Leu Ala Met Ala Ala Val Gln Val
145          150          155          160
Thr Ser Ile Phe Thr Leu Pro Phe Cys His Thr Val Val Gly His Phe
165          170          175
Phe Cys Asp Ile Leu Pro Val Met Lys Leu Ser Cys Ile Asn Thr Thr
180          185          190
Ile Asn Glu Ile Ile Asn Phe Val Val Arg Leu Phe Val Ile Leu Val
195          200          205
Pro Met Gly Leu Val Phe Ile Ser Tyr Val Leu Ile Ile Ser Thr Val
210          215          220
Leu Lys Ile Ala Ser Ala Glu Gly Trp Lys Lys Thr Phe Ala Thr Cys
225          230          235          240
Ala Phe His Leu Thr Val Val Ile Val His Tyr Gly Cys Ala Ser Ile
245          250          255
Ala Tyr Leu Met Pro Lys Ser Glu Asn Ser Ile Glu Gln Asp Leu Leu
260          265          270
Leu Ser Val Thr
275

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&lt;210&gt; 1970

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g888 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1970

```

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly
 1          5          10          15
Ile Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu
 20          25          30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala
 35          40          45
Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50          55          60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
 65          70          75          80
Met Leu Val Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly
 85          90          95
Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn
100          105          110

```

Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys  
           115                          120          125  
 Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu  
           130                          135          140  
 Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr  
   145                          150          155          160  
 Phe Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr  
                           165          170          175  
 Leu Phe Cys Asp Met Tyr Ile Leu Leu Trp Leu Ala Cys Ser Asn Thr  
                           180          185          190  
 His Ile Ile His Thr Ala Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu  
                           195          200          205  
 Thr Leu Leu Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr  
   210                          215          220  
 Ile Leu Gln Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr  
   225                          230          235          240  
 Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala  
                           245          250          255  
 Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val  
                           260          265          270  
 Ala Thr Val Met Tyr Ala Val Leu Thr Pro Met Met Asn Pro Phe Ile  
                           275          280          285  
 Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Pro Gly Arg Val Leu  
   290                          295          300  
 Trp Arg Pro Phe Gln Arg Pro Lys  
   305                          310

&lt;210&gt; 1971

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g889 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(299)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1971

Met Ala Asp Gly Asn Tyr Lys Arg Ile Thr Glu Phe Ile Phe Val Gly  
   1                          5          10          15  
 Leu Arg Tyr His Leu Gln Leu Gln Val Phe Leu Phe Leu Pro Phe Leu  
           20                          25          30  
 Pro Phe Tyr Leu Ile Thr Met Thr Glu Asn Leu Gly Met Met Val Arg  
   35                          40          45  
 Ile Trp Leu Asp Ser Cys Phe His Thr Pro Met Tyr Phe Val Leu Ser  
   50                          55          60  
 Tyr Leu Ser Phe Val Asp Ile Cys Phe Ser Ser Val Val Gly His Lys  
   65                          70          75          80  
 Leu Leu Thr Asp Leu Phe Ala Val Arg Lys Ala Ile Ser Phe Leu Gly  
                           85          90          95  
 Cys Pro Leu Gln Gln Trp Phe Phe Gly Phe Phe Val Val Ile Glu Tyr  
                           100          105          110  
 Leu Leu Leu Ala Ser Met Ala Tyr Asp Asn Tyr Val Ala Ile Cys Asn  
   115                          120          125  
 Pro Leu Leu Tyr Ser Val Ala Met Xaa Xaa Arg Leu Cys Ile Gln Leu  
   130                          135          140  
 Val Val Val Arg Tyr Ala Ala Asp Phe Phe Asn Thr Ile Thr His Thr  
   145                          150          155          160  
 Thr Ala Ala Phe His Phe Pro Phe Phe His Ser Asn Ile Ile Asn His

				165					170					175			
Phe	Phe	Cys	Asp	Met	Ser	Leu	Leu	Leu	Ser	Leu	Val	Cys	Ala	Asp	Ala		
			180						185					190			
Arg	Ile	Asn	Lys	Leu	Leu	Val	Phe	Ile	Val	Ala	Gly	Ala	Val	Leu	Val		
		195					200					205					
Val	Ser	Ser	Leu	Thr	Ile	Ile	Ile	Ser	Tyr	Phe	Tyr	Ile	Leu	Thr	Asp		
	210				215						220						
Ile	Leu	Arg	Ile	Cys	Ser	Ala	Asn	Gly	Lys	Asn	Lys	Thr	Phe	Ser	Thr		
225					230					235					240		
Cys	Ser	Ser	His	Leu	Thr	Ala	Val	Ser	Ile	Phe	Tyr	Gly	Ser	Leu	Phe		
			245						250					255			
Phe	Ser	Tyr	Val	Arg	Pro	Gly	Ala	Thr	Phe	Tyr	Pro	Glu	Leu	Asn	Lys		
			260					265					270				
Ile	Val	Leu	Val	Phe	Cys	Ile	Ile	Pro	Met	Leu	Lys	Pro	Leu	Ile	Tyr		
	275						280						285				
Ser	Leu	Ile	Asn	Lys	Glu	Val	Ser	Xaa	Pro	Leu							
	290					295											

&lt;210&gt; 1972

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g890 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1972

Met	Glu	Lys	Ile	Asn	Asn	Val	Thr	Glu	Phe	Ile	Phe	Trp	Gly	Leu	Ser		
1				5					10					15			
Gln	Ser	Pro	Glu	Ile	Glu	Lys	Val	Cys	Phe	Val	Val	Phe	Ser	Phe	Phe		
			20					25					30				
Tyr	Ile	Ile	Ile	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Met	Leu	Thr	Val	Cys		
		35				40						45					
Leu	Ser	Asn	Leu	Phe	Lys	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Phe	Leu		
	50				55					60							
Ser	Phe	Val	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Thr	Ala	Pro	Lys	Met	Ile		
65				70					75					80			
Val	Asp	Leu	Leu	Ala	Lys	Asp	Lys	Thr	Ile	Ser	Tyr	Val	Gly	Cys	Met		
			85					90					95				
Leu	Gln	Leu	Leu	Gly	Val	His	Phe	Phe	Gly	Cys	Thr	Glu	Ile	Phe	Ile		
			100					105					110				
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu		
	115					120						125					
His	Tyr	Met	Thr	Ile	Met	Asn	Arg	Glu	Thr	Cys	Asn	Lys	Met	Leu	Leu		
	130				135						140						
Gly	Thr	Trp	Val	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Val	Ala	Leu		
145				150					155					160			
Val	Val	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Phe		
			165					170					175				
Cys	Asp	Val	His	Pro	Val	Leu	Lys	Leu	Ala	Cys	Thr	Glu	Thr	Tyr	Ile		
		180						185					190				
Val	Gly	Val	Val	Val	Thr	Ala	Asn	Ser	Gly	Thr	Ile	Ala	Leu	Gly	Ser		
	195					200						205					
Phe	Val	Ile	Leu	Leu	Ile	Ser	Tyr	Ser	Ile	Ile	Leu	Val	Ser	Leu	Arg		
	210				215						220						
Lys	Gln	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser		
225				230					235					240			
His	Ile	Ala	Met	Val	Ile	Phe	Phe	Gly	Pro	Cys	Thr	Phe	Met	Tyr			
			245					250					255				
Met	Arg	Pro	Asp	Thr	Thr	Phe	Ser	Glu	Asp	Lys	Met	Val	Ala	Val	Phe		
			260					265					270				

Tyr Thr Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
           275                                  280                  285  
 Asn Ala Glu Val Lys Asn Ala Met Lys Lys Leu Trp Gly Arg Asn Val  
           290                                  295                  300  
 Phe Leu Glu Ala Lys Gly Lys  
 305                                  310

<210> 1973

<211> 318

<212> PRT

<213> Unknown (H38g891 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 1973

Met Asp Tyr Arg Asn Gln Thr Leu Val Thr Glu Phe Phe Ser Val Gly  
   1                                  5                                  10                                  15  
 Leu Thr Asn Leu Phe Gln His Lys Ile Ala Leu Phe Leu Val Phe Leu  
           20                                  25                                  30  
 Phe Val Tyr Leu Val Thr Val Pro Gly Asn Leu Gly Met Ile Thr Leu  
           35                                  40                                  45  
 Ile Trp Met Asp Ser Arg Leu Gln Thr Pro Lys Tyr Phe Ser Leu Cys  
           50                                  55                                  60  
 His Leu Ser Phe Val Asp Val Cys Ser Ser Ser Ala Ile Gly Pro Lys  
   65                                  70                                  75                                  80  
 Met Leu Thr Asp Ile Phe Val Glu Lys Lys Val Ile Ser Phe Gly Cys  
           85                                  90                                  95  
 Val Ala Gln Leu Trp Phe Phe Gly His Phe Val Val Thr Glu Cys Phe  
           100                                  105                                  110  
 Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Met Ala Ile Tyr Lys Pro  
           115                                  120                                  125  
 Leu Leu Tyr Thr Leu Ile Met Ser Gln Gln Val Cys Val Gln Leu Val  
           130                                  135                                  140  
 Val Gly Pro Tyr Ala Val Gly Leu Ile Ser Thr Met Thr His Met Thr  
   145                                  150                                  155                                  160  
 Phe Thr Phe Arg Leu Leu Tyr Cys Gly Pro Asn Ile Ile Asn His Phe  
           165                                  170                                  175  
 Phe Cys Asp Leu Leu Pro Val Leu Ser Leu Ala Tyr Ala Asp Thr His  
           180                                  185                                  190  
 Ile Asn Lys Cys Leu Leu Phe Ile Leu Val Gly Ala Leu Gly Val Leu  
           195                                  200                                  205  
 Ser Gly Val Ile Ile Leu Val Ser Tyr Ile Tyr Ile Val Ile Ala Ile  
           210                                  215                                  220  
 Leu Arg Ile Arg Ser Ala Asp Ala Arg Arg Lys Asp Phe Ser Thr Cys  
   225                                  230                                  235                                  240  
 Ser Ser His Leu Met Ala Val Ser Ile Leu Tyr Gly Thr Leu Phe Phe  
           245                                  250                                  255  
 Ile Cys Val Cys Pro Ser Ser Ser Phe Ser Ile Asn Ile Asn Lys Val  
           260                                  265                                  270  
 Val Ser Leu Phe Tyr Thr Ala Val Ile Pro Met Leu Asn Pro Leu Ile  
           275                                  280                                  285  
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ser Phe Ser Lys Lys Phe  
           290                                  295                                  300  
 Glu Arg Lys Lys Phe Leu Ile Gly Arg Xaa Thr Arg Ile Pro  
 305                                  310                                  315

<210> 1974  
 <211> 310  
 <212> PRT  
 <213> Unknown (H38g892 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(310)  
 <223> Xaa = Any Amino Acid

<400> 1974  
 Met Val Asn Phe Thr His Val Ser Glu Phe Val Leu Leu Gly Phe Gln  
 1 5 10 15  
 Gly Gly Pro Gly Met Gln Ala Met Leu Phe Leu Ile Phe Leu Ile Leu  
 20 25 30  
 Tyr Gly Ile Ala Val Val Gly Asn Leu Gly Met Ile Val Ile Ile Trp  
 35 40 45  
 Val Asp Ala His Leu His Thr Pro Met Tyr Ala Phe Leu Gln Ser Leu  
 50 55 60  
 Ser Leu Leu Asp Ile Cys Tyr Ser Ser Thr Ile Ala Pro Arg Ala Leu  
 65 70 75 80  
 Ala Asn Ser Met Gln Glu Asp His Thr Ile Ser Phe Gly Gly Cys Ala  
 85 90 95  
 Ala Gln Phe Phe Phe Leu Ser Leu Phe Gly Ile Thr Glu Ala Phe Leu  
 100 105 110  
 Leu Ala Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Asn Pro Leu  
 115 120 125  
 Leu Tyr Ser Val Ser Met Ser His Gln Val Cys Val Leu Leu Ile Ser  
 130 135 140  
 Gly Ser Tyr Leu Trp Gly Val Val Asn Ala Ile Ala Gln Thr Thr Met  
 145 150 155 160  
 Thr Phe Arg Leu Pro Phe Cys Gly Ser Asn Glu Ile Asn Asp Phe Phe  
 165 170 175  
 Cys Asp Val Pro Pro Leu Leu Ser Leu Ser Cys Ser Asp Thr Phe Ile  
 180 185 190  
 Asn Gln Leu Val Leu Leu Gly Leu Cys Gly Ser Ile Ile Val Ser Thr  
 195 200 205  
 Phe Leu Ile Val Leu Val Ser Tyr Ile Tyr Ile Ile Ser Thr Ile Leu  
 210 215 220  
 Arg Ile Pro Thr Met Gln Gly Arg Xaa Lys Ala Phe Ser Thr Cys Ala  
 225 230 235 240  
 Ser His Leu Thr Gly Val Cys Leu Phe Phe Gly Thr Val Phe Phe Met  
 245 250 255  
 Tyr Ala Gln Pro Ser Ala Ile Phe Phe Met Glu Gln Ser Lys Ile Val  
 260 265 270  
 Ser Ile Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Ile Tyr  
 275 280 285  
 Ser Leu Arg Asn Lys Glu Val Lys Gln Ala Leu Arg Arg Ser Met Gln  
 290 295 300  
 Lys Leu Ser Leu Xaa Ser  
 305 310

<210> 1975  
 <211> 309  
 <212> PRT  
 <213> Unknown (H38g893 protein)

<220>  
 <223> Synthetic construct



&lt;400&gt; 1975

```

Met Arg Glu Asn Asn Gln Ser Ser Thr Leu Glu Phe Ile Leu Leu Gly
 1           5           10           15
Val Thr Gly Gln Gln Glu Gln Asp Phe Phe Tyr Ile Leu Phe Leu
          20           25           30
Phe Ile Tyr Pro Ile Thr Leu Ile Gly Asn Leu Leu Ile Val Leu Ala
          35           40           45
Ile Cys Ser Asp Val Arg Leu His Asn Pro Met Tyr Phe Leu Leu Ala
          50           55           60
Asn Leu Ser Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys
          65           70           75           80
Met Leu Ala Asn His Leu Leu Gly Ser Lys Ser Ile Ser Phe Gly Gly
          85           90           95
Cys Leu Thr Gln Met Tyr Phe Met Ile Ala Leu Gly Asn Thr Asp Ser
          100          105          110
Tyr Ile Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser His
          115          120          125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Trp Leu
          130          135          140
Ile Ala Gly Ser Trp Val Ile Gly Asn Ala Asn Ala Leu Pro His Thr
          145          150          155          160
Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn
          165          170          175
Phe Tyr Cys Asp Ile Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Ile
          180          185          190
His Phe His Val Lys Met Met Tyr Leu Gly Val Gly Ile Phe Ser Val
          195          200          205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Ile Arg Val Phe Ser Thr Val
          210          215          220
Phe Gln Val Pro Ser Thr Lys Gly Val Leu Lys Ala Phe Ser Thr Cys
          225          230          235          240
Gly Ser His Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Gly
          245          250          255
Thr Tyr Phe Arg Pro Leu Thr Asn Tyr Ser Leu Lys Asp Ala Val Ile
          260          265          270
Thr Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
          275          280          285
Ser Leu Arg Asn Arg Asp Met Lys Ala Ala Leu Arg Lys Leu Phe Asn
          290          295          300
Lys Arg Ile Ser Ser
          305

```

&lt;210&gt; 1976

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g894 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1976

```

Met Lys Lys Glu Asn Gln Ser Phe Asn Leu Asp Phe Ile Leu Leu Gly
 1           5           10           15
Val Thr Ser Gln Gln Glu Gln Asn Asn Val Phe Phe Val Ile Phe Leu
          20           25           30
Cys Ile Tyr Pro Ile Thr Leu Thr Gly Asn Leu Leu Ile Ile Leu Ala
          35           40           45
Ile Cys Ala Asp Ile Arg Leu His Asn Pro Met Tyr Phe Leu Leu Ala
          50           55           60
Asn Leu Ser Leu Val Asp Ile Ile Phe Ser Ser Val Thr Ile Pro Lys

```

```

65          70          75          80
Val Leu Ala Asn His Leu Leu Gly Ser Lys Phe Ile Ser Phe Gly Gly
      85          90          95
Cys Leu Met Gln Met Tyr Phe Met Ile Ala Leu Ala Lys Ala Asp Ser
      100          105          110
Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Cys
      115          120          125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Leu Leu
      130          135          140
Ile Ala Gly Ser Trp Val Ile Gly Asn Thr Ser Ala Leu Pro His Thr
145          150          155          160
Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn
      165          170          175
Phe Tyr Cys Asp Ile Met Pro Leu Leu Lys Leu Ser Cys Ser Asp Val
      180          185          190
His Phe Asn Val Lys Met Met Tyr Leu Gly Val Gly Val Phe Ser Leu
      195          200          205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Val Gln Val Phe Ser Thr Val
210          215          220
Phe Gln Val Pro Ser Thr Lys Ser Leu Phe Lys Ala Phe Cys Thr Cys
225          230          235          240
Gly Ser His Leu Thr Val Val Phe Leu Tyr Tyr Gly Thr Thr Met Gly
      245          250          255
Met Tyr Phe Arg Pro Leu Thr Ser Tyr Ser Pro Lys Asp Ala Val Ile
      260          265          270
Thr Val Met Tyr Val Ala Val Thr Pro Ala Leu Asn Pro Phe Ile Tyr
      275          280          285
Ser Leu Arg Asn Trp Asp Met Lys Ala Ala Leu Gln Lys Leu Phe Ser
290          295          300
Lys Arg Ile Ser Ser
305

```

&lt;210&gt; 1977

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g895 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(329)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1977

```

Ala Leu Leu Phe His Ser Tyr Lys His Pro Thr Gln Arg Arg Met Thr
 1          5          10          15
Val Lys Ser His Ser Ile Val Thr Glu Phe Ser Leu Arg Gly Leu Thr
      20          25          30
Lys Gln Pro Asp Leu Gln Leu Phe His Phe Leu Ile Phe Leu Asp Ile
      35          40          45
His Met Val Thr Met Val Gly Asn Leu Gly Met Ile Thr Leu Ile Cys
      50          55          60
Leu Asn Ser Gln Leu His Thr Pro Met Tyr Tyr Phe Phe Ser Asn Leu
65          70          75          80
Ser Leu Leu Asp Leu Cys Tyr Ser Ser Ile Thr Asn Pro Lys Met Leu
      85          90          95
Val Asn Phe Val Leu Lys Lys Ser Ile Ile Ser Tyr Ala Gly Tyr Met
      100          105          110
Ser Xaa Phe Tyr Phe Phe Leu Val Phe Val Ile Ala Arg Cys Tyr Met
      115          120          125

```

```

Leu Met Val Lys Ala Cys Asp His Tyr Val Ala Ile Cys Cys Pro Leu
 130          135          140
Leu Cys Asn Val Ile Met Ser His Val Thr Cys Ser Leu Met Val Ala
145          150          155          160
Val Val Tyr Thr Met Gly Leu Val Val Ser Thr Ile Glu Thr Gly Leu
          165          170          175
Ile Leu Lys Leu Pro Tyr Cys Glu Leu Leu Thr Ser Arg Cys Phe Cys
          180          185          190
Asp Ile Leu Pro Leu Met Lys Leu Ser Xaa Ser Ser Ala Tyr Asp Val
          195          200          205
Glu Met Ala Val Phe Phe Phe Ala Arg Phe Asn Leu Arg Ile Met Ile
          210          215          220
Leu Thr Val Leu Val Ser Tyr Thr Phe Ile Leu Phe Ser Ile Leu His
225          230          235          240
Ile Ser Thr Thr Glu Gly Arg Ser Lys Val Phe Ser Thr Cys Ser Phe
          245          250          255
His Leu Ala Ala Ile Gly Met Phe His Gly Xaa Thr Ala Phe Arg Tyr
          260          265          270
Leu Lys Pro Ala Ile Thr Ser Ser Leu Ala Gln Glu Asn Val Ala Ser
          275          280          285
Val Phe Tyr Thr Thr Val Ile Tyr Val Pro Asn Pro Leu Met Tyr Ser
          290          295          300
Leu Lys Asn Lys Asp Val Lys Ala Ala Met Gln Lys Thr Leu Arg Ser
305          310          315          320
Lys Phe Cys Cys Arg Cys Asn Tyr Leu
          325

```

&lt;210&gt; 1978

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g896 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(316)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1978

```

Leu Leu Glu Gly Gly Asn Gln Thr Ser Thr Phe Glu Phe Leu Leu Trp
 1          5          10          15
Gly Leu Ser Asp Gln Pro Gln Gln Gln His Ile Phe Phe Leu Leu Phe
          20          25          30
Leu Trp Met Tyr Val Val Thr Val Ala Gly Asn Leu Leu Ile Val Leu
          35          40          45
Ala Ile Gly Thr Asp Thr His Leu His Thr Pro Met Tyr Phe Phe Leu
          50          55          60
Ala Ser Leu Ser Cys Ala Asp Ile Phe Ser Thr Ser Thr Thr Val Pro
65          70          75          80
Lys Ala Leu Val Asn Ile Gln Thr Gln Ser Arg Ser Ile Ser Tyr Ala
          85          90          95
Gly Cys Leu Ala Gln Leu Tyr Phe Phe Leu Thr Phe Gly Asp Met Asp
          100          105          110
Ile Phe Leu Pro Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
          115          120          125
His Leu Leu His Tyr Met Met Ile Met Ser Leu His Arg Cys Ala Phe
          130          135          140
Leu Val Thr Ala Cys Trp Thr Leu Thr Ser Leu Leu Ala Met Thr Arg
145          150          155          160
Thr Phe Leu Ile Phe Arg Leu Ser Leu Cys Ser Xaa Ile Leu Pro Gly

```

```

          165          170          175
Phe Phe Cys Asp Leu Gly Pro Leu Met Lys Val Ser Cys Ser Asp Ala
      180          185          190
Gln Val Asn Glu Leu Val Leu Leu Phe Leu Gly Gly Ala Val Ile Leu
      195          200          205
Ile Pro Phe Met Leu Ile Leu Val Ser Tyr Ile Arg Ile Val Ser Ala
      210          215          220
Ile Leu Arg Ala Pro Ser Ala Gln Gly Arg Arg Lys Ala Phe Ser Thr
      225          230          235
Cys Asp Ser His Leu Val Val Val Ala Leu Phe Phe Gly Thr Val Ile
      245          250          255
Arg Ala Tyr Leu Cys Pro Ser Ser Ser Ser Ser Asn Ser Val Lys Glu
      260          265          270
Asp Thr Ala Ala Ala Val Met Tyr Thr Val Val Thr Pro Leu Leu Asn
      275          280          285
Pro Phe Ile Tyr Ser Met Arg Asn Lys Asp Met Lys Ala Ala Val Val
      290          295          300
Arg Leu Leu Lys Gly Arg Val Ser Phe Ser Gln Gly
      305          310          315

```

&lt;210&gt; 1979

&lt;211&gt; 336

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g897 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(336)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1979

```

Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
  1      5      10      15
Lys Leu Ser Glu Asp Pro Glu Leu Gln Gln Val Val Ala Gly Leu Phe
      20      25      30
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
      35      40      45
Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu
      50      55      60
Ser Asn Leu Ser Leu Ala Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
      65      70      75      80
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
      85      90      95
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
      100      105      110
Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile
      115      120      125
Cys His Pro Leu Tyr Cys Ser Ala Ile Phe Asn Pro Cys Phe Cys Gly
      130      135      140
Phe Leu Asp Leu Leu Ser Phe Ile Phe Phe Phe Leu Ser Leu Ser Asp
      145      150      155      160
Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp
      165      170      175
Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Ser His Leu
      180      185      190
Ala Cys Cys Asp Thr Phe Thr Arg Asn Ile Met Tyr Phe Pro Ala Ala
      195      200      205
Ile Phe Gly Phe Leu Pro Ile Leu Gly Thr Leu Phe Ser Tyr Cys Lys
      210      215      220

```

```

Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys
225          230          235          240
Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr
          245          250          255
Gly Thr Gly Ile Gly Gly Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro
          260          265          270
Arg Lys Gly Ala Val Ala Ser Val Met Tyr Met Val Val Thr Pro Met
          275          280          285
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Ser Val
          290          295          300
Leu Arg Arg Pro His Gly Ser Thr Val Xaa Ser Gln His Leu Leu Ile
305          310          315          320
Cys Ser Ile Pro Phe Val Gly Trp Phe Lys Lys Gly Ala Lys Val Lys
          325          330          335

```

&lt;210&gt; 1980

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g898 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(309)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1980

```

Met Arg Gln Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
1          5          10          15
Gln Asp Leu Asp Val Gln Lys Ala Leu Phe Val Ile Phe Leu Leu Thr
          20          25          30
Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Val Thr Ile Ile
          35          40          45
Thr Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu
          50          55          60
Ser Phe Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile
65          70          75          80
Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Pro Ala Cys Met
          85          90          95
Gly Gln Leu Phe Ile Tyr His Leu Phe Gly Gly Ser Glu Val Phe Leu
          100          105          110
Leu Val Val Met Ala Cys Asp His Tyr Val Ala Ile Cys Lys Pro Leu
          115          120          125
His Tyr Leu Thr Ile Met Asn Arg Gln Val Xaa Ile Leu Leu Leu Val
          130          135          140
Val Val Val Thr Gly Gly Phe Leu His Ser Val Phe Gln Ile Val Val
145          150          155          160
Val Tyr Ser Leu Ala Phe Cys Gly Pro Asn Val Ile Asp Tyr Phe Val
          165          170          175
Cys Asp Met Tyr Pro Leu Leu Glu Leu Val Cys Thr Asp Thr Tyr Phe
          180          185          190
Ile Gly Leu Thr Val Phe Val Asn Gly Gly Thr Ile Cys Ile Val Val
          195          200          205
Phe Thr Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Asn Ser Leu Lys
          210          215          220
Thr Tyr Ser Gln Glu Gly Arg His Lys Val Leu Phe Thr Cys Ser Ser
225          230          235          240
His Ile Ile Val Phe Ala Leu Phe Phe Val Pro Cys Ile Phe Met Tyr
          245          250          255
Val Arg Pro Val Ser Asn Tyr Pro Phe Asp Lys Phe Leu Thr Val Phe

```

```

                260                265                270
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
      275                280                285
Asn Ser Glu Met Arg Asn Ser Val Glu Thr Leu Leu Cys Lys Ser Xaa
      290                295                300
Leu Tyr Xaa Ser Lys
305

```

<210> 1981  
 <211> 313  
 <212> PRT  
 <213> Unknown (H38g899 protein)

<220>  
 <223> Synthetic construct

```

<400> 1981
Met Glu Arg Ile Asn Ser Thr Leu Leu Thr Ala Phe Ile Leu Thr Gly
  1                5                10                15
Ile Pro Tyr Pro Leu Arg Leu Arg Thr Leu Phe Phe Val Phe Phe Phe
      20                25                30
Leu Ile Tyr Ile Leu Thr Gln Leu Gly Asn Leu Leu Ile Leu Ile Thr
      35                40                45
Val Trp Ala Asp Pro Arg Leu His Ala Arg Pro Met Tyr Ile Phe Leu
      50                55                60
Gly Val Leu Ser Val Ile Asp Met Ser Ile Ser Ser Ile Ile Val Pro
      65                70                75                80
Arg Leu Met Met Asn Phe Thr Leu Gly Val Lys Pro Ile Pro Phe Gly
      85                90                95
Gly Cys Val Ala Gln Leu Tyr Phe Tyr His Phe Leu Gly Ser Thr Gln
      100               105               110
Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys
      115               120               125
Gln Pro Leu Arg Tyr Pro Val Leu Met Thr Ala Lys Leu Ser Ala Leu
      130               135               140
Leu Val Ala Gly Ala Trp Met Ala Gly Ser Ile His Gly Ala Leu Gln
      145               150               155               160
Ala Ile Leu Thr Phe Arg Leu Pro Tyr Cys Gly Pro Asn Gln Val Asp
      165               170               175
Tyr Phe Phe Cys Asp Ile Pro Ala Val Leu Arg Leu Ala Cys Ala Asp
      180               185               190
Thr Thr Val Asn Glu Leu Val Thr Phe Val Asp Ile Gly Val Val Val
      195               200               205
Ala Ser Cys Phe Ser Leu Ile Leu Leu Ser Tyr Ile Gln Ile Ile Gln
      210               215               220
Ala Ile Leu Arg Ile His Thr Ala Asp Gly Arg Arg Arg Ala Phe Ser
      225               230               235               240
Thr Cys Gly Ala His Val Thr Val Val Thr Val Tyr Tyr Val Pro Cys
      245               250               255
Ala Phe Ile Tyr Leu Arg Pro Glu Thr Asn Ser Pro Leu Asp Gly Ala
      260               265               270
Ala Ala Leu Val Pro Thr Ala Ile Thr Pro Phe Leu Asn Pro Leu Ile
      275               280               285
Tyr Thr Leu Arg Asn Gln Glu Val Lys Leu Ala Leu Lys Arg Met Leu
      290               295               300
Arg Ser Pro Arg Thr Pro Ser Glu Val
305                310

```

<210> 1982  
 <211> 318  
 <212> PRT

<213> Unknown (H38g900 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 1982

```

Met Gly Lys Thr Lys Asn Thr Ser Leu Asp Thr Val Val Arg Asp Phe
 1          5          10          15
Ile Leu Leu Gly Leu Ser His Pro Pro Asn Ile Arg Ser Leu Leu Phe
          20          25          30
Leu Val Phe Phe Val Ile Tyr Ile Leu Thr Gln Leu Gly Asn Leu Leu
          35          40          45
Ile Leu Leu Thr Val Trp Ala Asp Pro Lys Leu Arg Ala Arg Pro Met
          50          55          60
Tyr Ile Leu Leu Gly Val Leu Ser Phe Leu Asp Met Trp Leu Ser Ser
65          70          75          80
Val Ile Val Pro Xaa Ile Ile Leu Asn Phe Thr Pro Ala Asn Lys Ala
          85          90          95
Ile Pro Phe Gly Gly Cys Val Ala Gln Leu Tyr Phe Phe His Phe Leu
          100          105          110
Gly Ser Thr Gln Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Tyr
          115          120          125
Leu Ala Ile Cys Gln Pro Leu Arg Tyr Pro Val Leu Met Asn Gly Arg
          130          135          140
Leu Cys Thr Val Leu Val Ala Gly Ala Trp Val Ala Gly Ser Met His
145          150          155          160
Gly Ser Ile Gln Ala Thr Leu Thr Phe Arg Leu Pro Tyr Cys Gly Pro
          165          170          175
Asn Gln Val Asp Tyr Phe Ile Cys Asp Ile Pro Ala Val Leu Arg Leu
          180          185          190
Ala Cys Ala Asp Thr Thr Val Asn Glu Leu Val Thr Phe Val Asp Ile
          195          200          205
Gly Val Val Ala Ala Ser Cys Phe Met Leu Ile Leu Leu Ser Tyr Ala
          210          215          220
Asn Ile Val Asn Ala Ile Leu Lys Ile Arg Thr Thr Asp Gly Arg Arg
225          230          235          240
Arg Ala Phe Ser Thr Cys Gly Ser His Leu Ile Val Val Thr Val Tyr
          245          250          255
Tyr Val Pro Cys Ile Phe Ile Tyr Leu Arg Ala Gly Ser Lys Gly Pro
          260          265          270
Leu Asp Gly Ala Ala Ala Val Phe Tyr Thr Val Val Thr Pro Leu Leu
          275          280          285
Asn Pro Leu Ile Tyr Thr Leu Arg Asn Gln Glu Val Lys Ser Ala Leu
          290          295          300
Lys Arg Ile Thr Ala Gly Gln Gly Thr Glu Xaa Lys Xaa Val
305          310          315

```

<210> 1983

<211> 310

<212> PRT

<213> Unknown (H38g901 protein)

<220>

<223> Synthetic construct

<400> 1983

```

Met Gly Lys Thr Lys Asn Thr Ser Leu Asp Ala Val Val Thr Asp Phe

```

1				5					10				15
Ile	Leu	Leu	Gly	Leu	Ser	His	Pro	Pro	Asn	Leu	Arg	Ser	Leu
			20					25				30	Phe
Leu	Val	Phe	Phe	Ile	Ile	Tyr	Ile	Leu	Thr	Gln	Leu	Gly	Asn
		35					40					45	Leu
Ile	Leu	Leu	Thr	Met	Trp	Ala	Asp	Pro	Lys	Leu	Cys	Ala	Arg
		50				55					60		Pro
Tyr	Ile	Leu	Leu	Gly	Val	Leu	Ser	Phe	Leu	Asp	Met	Trp	Leu
65					70					75			Ser
Val	Thr	Val	Pro	Arg	Leu	Ile	Leu	Asp	Phe	Thr	Pro	Ser	Ile
				85					90				Lys
Ile	Pro	Phe	Gly	Gly	Cys	Val	Ala	Gln	Leu	Tyr	Phe	Phe	His
			100					105				110	Phe
Gly	Ser	Thr	Gln	Cys	Phe	Leu	Tyr	Thr	Leu	Met	Ala	Tyr	Asp
		115					120					125	Arg
Leu	Ala	Ile	Cys	Gln	Pro	Leu	His	Tyr	Pro	Val	Leu	Met	Asn
		130				135					140		Gly
Leu	Cys	Thr	Val	Leu	Val	Ala	Gly	Ala	Trp	Val	Ala	Gly	Ser
145					150					155			Met
Gly	Ser	Ile	Gln	Ala	Thr	Leu	Thr	Phe	Arg	Leu	Pro	Tyr	Cys
			165						170				Gly
Asn	Gln	Val	Asp	Tyr	Phe	Ile	Cys	Asp	Ile	Arg	Ala	Val	Leu
		180						185					Arg
Ala	Cys	Ala	Asp	Thr	Thr	Val	Asn	Glu	Leu	Val	Thr	Phe	Val
		195					200					205	Asp
Arg	Val	Val	Ala	Ala	Ser	Cys	Phe	Met	Leu	Ile	Leu	Leu	Ser
		210				215					220		Tyr
Asn	Ile	Val	His	Ala	Ile	Leu	Lys	Ile	Arg	Thr	Ala	Asp	Gly
225					230				235				Arg
Arg	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ile	Val	Val	Thr
			245						250				Val
Tyr	Val	Pro	Cys	Ile	Phe	Ile	Tyr	Leu	Arg	Ala	Gly	Ser	Lys
		260						265					Asp
Leu	Asp	Gly	Ala	Ala	Ala	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro
		275					280					285	Leu
Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Lys	Ser
		290				295					300		Ala
Lys	Arg	Ile	Thr	Ala	Gly								
305					310								

&lt;210&gt; 1984

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g902 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1984

Met	Phe	Ile	Leu	Thr	Gly	Phe	Thr	Asp	Asp	Phe	Glu	Leu	Gln
1				5				10					15
Leu	Phe	Leu	Leu	Phe	Phe	Ala	Ile	Tyr	Leu	Phe	Thr	Leu	Ile
		20						25				30	Gly
Leu	Gly	Leu	Val	Val	Leu	Val	Ile	Glu	Asp	Ser	Trp	Leu	His
		35					40					45	Asn
Met	Tyr	Tyr	Phe	Leu	Ser	Val	Leu	Ser	Phe	Leu	Asp	Ala	Cys
		50				55					60		Tyr
Thr	Val	Val	Thr	Pro	Lys	Met	Leu	Val	Asn	Phe	Leu	Ala	Lys
65					70				75				Asn
Ser	Ile	Ser	Phe	Ile	Gly	Cys	Ala	Thr	Gln	Met	Leu	Leu	Phe
				85					90				Val
													Thr



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Phe Gly Thr Thr Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp His
      100      105      110
Tyr Val Ala Ile Tyr Asn Pro Leu Leu Tyr Ser Val Ser Met Ser Pro
      115      120      125
Arg Val Tyr Val Pro Leu Ile Thr Ala Ser Tyr Val Ala Gly Ile Leu
      130      135      140
His Ala Thr Ile His Ile Val Ala Thr Phe Ser Leu Ser Phe Cys Gly
      145      150      155      160
Ser Asn Glu Ile Arg His Val Phe Cys Asp Met Pro Pro Leu Leu Ala
      165      170      175
Ile Ser Cys Ser Asp Thr His Thr Asn Gln Leu Leu Leu Phe Tyr Phe
      180      185      190
Val Gly Ser Ile Glu Ile Val Thr Ile Leu Ile Val Leu Ile Ser Cys
      195      200      205
Asp Phe Ile Leu Leu Ser Ile Leu Lys Met His Ser Ala Lys Gly Arg
      210      215      220
Gln Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Gly Val Thr Ile
      225      230      235      240
Tyr His Gly Thr Ile Leu Val Ser Tyr Met Arg Pro Ser Ser Ser Tyr
      245      250      255
Ala Ser Asp His Asp Ile Ile Val Ser Ile Phe Tyr Thr Ile Val Ile
      260      265      270
Pro Lys Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys
      275      280      285
Lys Ala Val Lys Lys Met Leu Lys Leu Val Tyr Lys
      290      295      300

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&lt;210&gt; 1985

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g903 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(324)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1985

```

His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
  1      5      10      15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
      20      25      30
Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser
      35      40      45
Ile Leu Ala Val Arg Ser Glu Ser Pro Leu His Thr Thr Met Tyr Phe
      50      55      60
Phe Leu Ser Ile Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
      65      70      75      80
Val Pro Lys Met Ile Val Asp Met Gln Trp Tyr Ser Lys Val Ile Ser
      85      90      95
His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
      100      105      110
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Gly
      115      120      125
Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
      130      135      140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
      145      150      155      160
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu

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      165      170      175
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys
      180      185      190
Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Gly Ser Thr Met
      195      200      205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile
      210      215      220
Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
225      230      235      240
Phe Ser Thr Tyr Gly Ser His Leu Ala Val Phe Cys Xaa Phe Asp Gly
      245      250      255
Thr Gly Ile Gly Val Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Arg
      260      265      270
Asn Gly Val Val Val Ser Val Lys Xaa Ala Val Val Thr Pro Met Pro
      275      280      285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
      290      295      300
Arg Arg Leu Pro Asn Lys Thr Val Glu Ser Pro Xaa Ser Val Pro Ser
305      310      315      320
Phe Phe Trp Cys

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&lt;210&gt; 1986

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g904 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(335)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1986

```

Asp Thr Asp Pro Gln Ser Ile Thr Asp Val Ser Ile Phe Leu Leu Leu
 1      5      10      15
Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Val Ala Gly Leu Phe
      20      25      30
Leu Ser Met Cys Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu
      35      40      45
Asp Val Ser Pro Asp Ser His Leu Pro Thr Pro Met Tyr Phe Phe Leu
      50      55      60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
      65      70      75      80
Lys Met Ile Val Asp Ile Gln Ser His Ser Lys Val Ile Tyr Ala Gly
      85      90      95
Cys Leu Thr Val Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Lys
      100      105      110
Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Pro Ile Cys
      115      120      125
His Pro Leu Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe
      130      135      140
Leu Asn Leu Leu Ser Phe Phe Phe Phe Leu Ser Leu Leu Asp Ser Gln
145      150      155      160
Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu
      165      170      175
Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala Cys
      180      185      190
Cys Asp Thr Phe Thr Arg Asn Ile Ser Met Tyr Phe Pro Ala Ala Val
195      200      205

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Phe Gly Phe Leu Ser Ile Ser Gly Thr Leu Phe Ser Tyr Cys Lys Met
  210                215                220
Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
  225                230                235                240
Phe Ser Thr Xaa Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
                245                250                255
Thr Gly Val Gly Glu Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg
                260                265                270
Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu
                275                280                285
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Gly Asp Ile Lys Ser Val Leu
                290                295                300
Arg Arg Pro Gln Gly Ser Thr Val Ser Ser Gln Tyr Leu Leu Ile Cys
  305                310                315                320
Ser Ile Pro Phe Val Gly Trp Val Asn Lys Asp Ser Lys Val Lys
                325                330                335

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&lt;210&gt; 1987

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g905 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(310)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1987

```

Met Glu Asn Arg Lys Asn Val Thr Xaa Phe Ile Leu Leu Gly Leu Thr
  1      5      10      15
Gln Asn Pro Glu Gly Gln Lys Val Leu Phe Val Thr Phe Leu Leu Ile
                20      25      30
Tyr Ile Val Thr Ile Met Gly Asn Leu Leu Ile Met Val Thr Ile Met
                35      40      45
Ala Ser Gln Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu
                50      55      60
Ser Phe Ile His Thr Val Tyr Tyr Thr Ala Ile Ala Pro Lys Met Ile
                65      70      75      80
Val Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Gln Gly Cys Met
                85      90      95
Ala Gln Leu Phe Met Asp His Leu Phe Ala Gly Ala Glu Val Ile Leu
                100     105     110
Leu Val Val Met Ala Tyr Asp Gln Tyr Val Ala Ile Cys Lys Pro Leu
                115     120     125
His Tyr Leu Ile Ile Met Asn Arg Arg Val Cys Val Leu Met Leu Leu
                130     135     140
Val Ala Trp Ile Gly Gly Phe Leu His Ser Leu Val Gln Phe Leu Phe
  145      150      155      160
Ile Tyr Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp Asn Phe Leu
                165      170      175
Cys Asp Leu Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asn Thr Tyr Val
                180      185      190
Thr Gly Leu Ser Met Ile Ala Asn Gly Gly Ala Ile Cys Thr Val Thr
                195      200      205
Phe Phe Pro Leu Leu Leu Ser Tyr Gly Val Ile Leu Pro Ser Leu Lys
                210      215      220
Thr Gln Ser Leu Glu Gly Lys Cys Lys Ala Phe Tyr Thr Cys Ala Ser
  225      230      235      240
His Ile Thr Val Ile Thr Leu Phe Phe Val Pro Cys Ile Phe Leu Leu

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				245					250					255			
Ala	Arg	Pro	Asn	Ser	Thr	Phe	Pro	Ile	Asp	Lys	Ser	Met	Thr	Val	Val		
			260					265					270				
Leu	Thr	Cys	Ile	Thr	Pro	Met	Leu	Lys	Pro	Leu	Ile	Tyr	Ala	Leu	Arg		
		275					280					285					
Asn	Ala	Glu	Met	Lys	Ser	Ala	Met	Arg	Lys	Leu	Trp	Ser	Glu	Lys	Val		
	290					295					300						
Ser	Leu	Ala	Gly	Lys	Gly												
305					310												

&lt;210&gt; 1988

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g906 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1988

His	Met	Pro	Pro	Asn	Asn	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr		
1				5				10					15				
Gln	Asn	Pro	His	Leu	Gln	Lys	Ile	Leu	Phe	Ile	Val	Phe	Leu	Phe	Ile		
		20						25				30					
Phe	Leu	Phe	Thr	Met	Leu	Ala	Asn	Leu	Phe	Ile	Val	Ile	Thr	Ile	Ser		
		35					40					45					
Cys	Ser	Pro	Thr	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Thr	Tyr	Leu		
	50					55					60						
Ser	Phe	Ile	Asp	Ala	Ser	Tyr	Thr	Ser	Val	Thr	Thr	Pro	Lys	Met	Ile		
65				70					75					80			
Thr	Asp	Leu	Leu	Tyr	Gln	Arg	Arg	Thr	Ile	Ser	Leu	Ala	Gly	Cys	Leu		
			85						90				95				
Thr	Gln	Leu	Phe	Val	Glu	His	Leu	Leu	Gly	Gly	Ser	Glu	Ile	Ile	Leu		
		100						105					110				
Leu	Ile	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu		
		115					120					125					
His	Tyr	Thr	Thr	Ile	Met	Gln	Gln	Gly	Ile	Cys	His	Leu	Leu	Val	Val		
	130					135				140							
Ile	Ala	Trp	Ile	Gly	Gly	Ile	Leu	His	Ala	Thr	Val	Gln	Ile	Leu	Phe		
145					150				155					160			
Met	Thr	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Met		
			165						170					175			
Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Arg	Asp	Thr	Tyr	Arg		
		180						185				190					
Leu	Gly	Met	Leu	Val	Ala	Ala	Asn	Ser	Gly	Ala	Met	Cys	Leu	Leu	Ile		
	195						200					205					
Phe	Ser	Leu	Leu	Val	Ile	Ser	Tyr	Ile	Val	Ile	Leu	Ser	Ser	Leu	Lys		
	210					215					220						
Ser	Tyr	Ser	Ser	Glu	Gly	Gln	His	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser		
225				230					235					240			
His	Phe	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Thr	Tyr		
			245					250					255				
Met	His	Pro	Val	Val	Thr	Tyr	Ser	Val	Asp	Lys	Leu	Val	Thr	Val	Phe		
		260						265					270				
Phe	Ala	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Val	Arg		
		275					280					285					
Asn	Thr	Glu	Val	Lys	Asn	Ala	Val	Arg	Ser	Leu	Leu	Arg	Lys	Arg	Val		
	290					295					300						
Thr	Val	Tyr	Ala														
305																	

&lt;210&gt; 1989

<211> 166  
 <212> PRT  
 <213> Unknown (H38g907 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(166)  
 <223> Xaa = Any Amino Acid

<400> 1989  
 Met Tyr Thr Thr Leu Leu Met Ala Arg Leu Cys Leu Cys Ala Asp Asn  
 1 5 10 15  
 Val Ile Pro His Ser Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala  
 20 25 30  
 Leu Ser Asp Thr Arg Val Asn Glu Xaa Val Ile Phe Ile Met Gly Gly  
 35 40 45  
 Leu Ile Leu Val Ile Pro Ser Ile Leu Ile Leu Gly Ser Tyr Ala Arg  
 50 55 60  
 Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser Lys Cys Ile Cys Lys  
 65 70 75 80  
 Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr  
 85 90 95  
 Gly Thr Val Ile Gly Leu Tyr Leu Cys Ser Ser Ala Asn Ser Ser Thr  
 100 105 110  
 Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met  
 115 120 125  
 Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala  
 130 135 140  
 Leu Ser Arg Val Ile His Gln Lys Lys Thr Phe Phe Ser Leu Xaa Xaa  
 145 150 155 160  
 Xaa His Leu Glu Leu Leu  
 165

<210> 1990  
 <211> 333  
 <212> PRT  
 <213> Unknown (H38g908 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(333)  
 <223> Xaa = Any Amino Acid

<400> 1990  
 Met Gly Pro Lys Asn Leu Thr Arg Val Leu Glu Phe Phe Leu Leu His  
 1 5 10 15  
 Phe Leu Asp Asp Leu Glu Leu Gln Pro Phe Leu Ser Gly Cys Pro Xaa  
 20 25 30  
 Thr Met His Leu Val Thr Val Leu Ala Asn Leu Leu Thr Ser Phe Xaa  
 35 40 45  
 Leu Ser Ala Leu Pro His Leu His Asn Pro Met Asn Phe Asn Leu Ser  
 50 55 60  
 Leu Ala Asp Ile Gly Phe Thr Pro Ala Thr Ile Ser Lys Ile Thr Val  
 65 70 75 80  
 Asp Leu Gln Thr His Ser Arg Ile Ile Leu Tyr Met Ser Cys Leu Lys  
 85 90 95  
 Xaa Met Ser Phe Lys Ile Ile Phe Gly Cys Leu His Asn Leu Leu Met

100	105	110
Thr Val Met Ala Tyr Asp Pro Phe Val Ala Thr Cys His Leu Leu Tyr		
115	120	125
Tyr Thr Val Ile Arg Asn Pro His Leu Cys Gly Leu Leu Leu Leu Val		
130	135	140
Ser Leu Phe Ser Leu Ser Phe Phe Phe Leu Ile Ser Leu Leu Glu Thr		
145	150	155
Gln Leu Tyr Ser Leu Met Val Ser Gln Val Leu Cys Met Gln Asp Val		
165	170	175
Asp Ile Pro His Phe Phe Cys Asp Pro Ser Gln Phe Leu His Leu Ser		
180	185	190
Cys Ser Asp Thr Ala Thr Asn Asn Thr Leu Met His Phe Ile Gly Ala		
195	200	205
Ile Phe Cys Gly Pro Phe Ser Gly Ile Leu Tyr Cys Tyr Thr Gln Ile		
210	215	220
Met Phe Ser Ile Leu Ile Thr Leu Xaa Asn Val Gly Ser Ile Lys Gln		
225	230	235
Thr Phe Ser Thr His Arg Ser His Leu Ser Val Val Cys Leu Phe Tyr		
245	250	255
Gly Thr Gly Leu Gly Val Tyr Leu Ser Leu Ala Gly Ser Pro Ser Pro		
260	265	270
Arg Thr Gly Val Val Ala Ser Met Val Tyr Thr Thr Val Thr Leu Met		
275	280	285
Leu Asn Pro Val Ile His Ser Leu Arg Asn Arg Asp Ile Lys Asn Thr		
290	295	300
Trp Trp Trp Leu Leu Ser Ile Thr Ala Trp Tyr Gln Tyr Leu Cys Tyr		
305	310	315
Pro Leu Trp Ser Val Val Arg Lys Asn Ser Lys Leu Lys		
325	330	

&lt;210&gt; 1991

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g909 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1991

Met Gly Thr Ser Asn Asn Glu Thr Glu Phe Ile Leu Leu Gly Ile Thr		
1	5	10
Lys Asn Pro Glu Leu Arg Lys Ile Phe Ser Ala Leu Phe Leu Ala Met		
20	25	30
Tyr Val Thr Thr Val Leu Gly Asn Leu Phe Ile Val Val Thr Leu Ala		
35	40	45
Ala Ser Trp Ser Leu Arg Ser Pro Met Tyr Phe Ser Leu Thr Ser Leu		
50	55	60
Ser Leu Met Gly Ala Thr Tyr Ser Ser Ile Thr Ala Pro Lys Met Thr		
65	70	75
Val Asp Ser Leu Arg Ser Thr Thr Ile Ser Leu Glu Gly Cys Met Thr		
85	90	95
Gln Leu Phe Ala Glu His Phe Ser Asp Gly Val Ala Ile Ile Leu Leu		
100	105	110
Thr Val Met Val Cys Asp Cys Tyr Glu Ala Ile Ser Lys Pro Leu His		
115	120	125
Asp Thr Thr Ile Met Ser Pro Arg Val Cys Cys Leu Leu Val Val Glu		
130	135	140
Ala Trp Val Gly Gly Leu Thr His Ala Thr Ile Gln Leu Phe Phe Phe		
145	150	155
Leu Tyr Gln Ile Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile		
165	170	175

Cys Asp Leu Phe Pro Leu Leu Lys Leu Ala Tyr Met Asp Thr His Met  
 180 185 190  
 Leu Gly Leu Leu Val Ile Leu Asn Ser Gly Val Met Cys Met Ala Ile  
 195 200 205  
 Phe Leu Ile Leu Ile Ala Ser Tyr Ile Val Thr Leu Tyr Ser Leu Lys  
 210 215 220  
 Ser Cys Ser Ser Val Gly Arg Arg Asn Thr Leu Ser Thr Cys Gly Ser  
 225 230 235 240  
 His His Thr Val Val Ile Leu Phe Phe Val Glu Cys Ile Phe Leu Tyr  
 245 250 255  
 Ile Arg Pro Val Val Thr Tyr Pro Ile Asp Lys Asp Met Ala Ile Ser  
 260 265 270  
 Phe Thr Ile Val Ala Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Gly Ile Lys Val Lys Asn Ala Ile Arg Lys Met Trp Met Lys Gln Gly  
 290 295 300  
 Thr Leu Gly Gly  
 305

&lt;210&gt; 1992

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g910 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(318)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1992

Met Ala Pro Thr Asn Leu Thr Ser Ala Pro Val Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Val Asp Gly Thr Asp Ala His Pro Leu Leu Phe Leu Leu Cys Leu  
 20 25 30  
 Gly Ile Tyr Leu Leu Asn Ala Leu Ser Asn Leu Ser Met Val Ala Leu  
 35 40 45  
 Val Arg Ser Asp Gly Ala Leu Arg Ser Pro Met Tyr Tyr Phe Leu Gly  
 50 55 60  
 His Leu Ser Leu Val Asp Val Cys Phe Thr Thr Val Thr Val Pro Arg  
 65 70 75 80  
 Leu Leu Ala Gly Leu Leu His Pro Gly Gln Ala Ile Ser Phe Gln Ala  
 85 90 95  
 Cys Leu Ala Glu Met Tyr Phe Phe Val Thr Leu Gly Ile Thr Glu Ser  
 100 105 110  
 Tyr Leu Met Ala Ala Met Ser Xaa Arg Ala Arg Arg Arg Val Pro Ala  
 115 120 125  
 Pro Leu Tyr Gly Ala Leu Val Thr Pro Ser Ala Cys Ala Ser Leu Val  
 130 135 140  
 Arg Ala Ser Trp Ala Val Thr His Leu His Ser Leu Leu His Thr Leu  
 145 150 155 160  
 Leu Leu Ser Ala Leu Ser Tyr Pro Tyr Pro Thr Pro Val Arg Pro Phe  
 165 170 175  
 Phe Cys Asp Met Thr Val Met Leu Ser Leu Ala Thr Ser Asp Thr Ser  
 180 185 190  
 Ala Ala Glu Thr Ala Ile Phe Ser Glu Gly Leu Ala Val Val Leu Ala  
 195 200 205  
 Pro Leu Leu Leu Val Phe Leu Ser Tyr Ala Arg Ile Leu Val Ala Val  
 210 215 220  
 Leu Gly Leu Pro Arg Pro Arg Arg Ala Phe Ser Thr Cys Gly Ala His

225					230					235				240	
Leu	Val	Ala	Val	Ala	Val	Ala	Leu	Phe	Phe	Gly	Ser	Val	Leu	Ser	Val
				245					250					255	
Tyr	Phe	Pro	Pro	Ser	Ser	Ala	Tyr	Ser	Ala	Arg	Tyr	Asp	Arg	Leu	Ala
			260					265					270		
Ser	Val	Val	Tyr	Ala	Val	Ile	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Asn
		275				280						285			
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu	Lys	Arg	Gly	Leu	Arg
	290				295						300				
Trp	Arg	Ala	Ala	Pro	Gln	Glu	Ala	Trp	Arg	Ala	Asn	Leu	Ala		
305					310					315					

&lt;210&gt; 1993

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g911 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1993

Met	Lys	Gly	Ala	Asn	Leu	Ser	Gln	Gly	Met	Glu	Phe	Glu	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Thr	Asp	Pro	Gln	Leu	Gln	Arg	Leu	Leu	Phe	Val	Val	Phe	Leu
			20					25					30		
Gly	Met	Tyr	Thr	Ala	Thr	Leu	Leu	Gly	Asn	Leu	Val	Met	Phe	Leu	Leu
		35				40					45				
Ile	His	Val	Ser	Ala	Thr	Leu	His	Thr	Pro	Met	Tyr	Ser	Leu	Leu	Lys
	50				55					60					
Ser	Leu	Ser	Phe	Leu	Asp	Phe	Cys	Tyr	Ser	Ser	Thr	Val	Val	Pro	Gln
65				70					75					80	
Thr	Leu	Val	Asn	Phe	Leu	Ala	Lys	Arg	Lys	Val	Ile	Ser	Tyr	Phe	Gly
			85					90						95	
Cys	Met	Thr	Gln	Met	Phe	Phe	Tyr	Ala	Gly	Phe	Ala	Thr	Ser	Glu	Cys
			100					105					110		
Tyr	Leu	Ile	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Asn
		115				120						125			
Pro	Leu	Leu	Tyr	Ser	Thr	Ile	Met	Ser	Pro	Glu	Val	Cys	Ala	Ser	Leu
	130				135						140				
Ile	Val	Gly	Ser	Tyr	Ser	Ala	Gly	Phe	Leu	Asn	Ser	Leu	Ile	His	Thr
145					150					155				160	
Gly	Cys	Ile	Phe	Ser	Leu	Lys	Phe	Cys	Gly	Ala	His	Val	Val	Thr	His
			165						170					175	
Phe	Phe	Cys	Asp	Gly	Pro	Pro	Ile	Leu	Ser	Leu	Ser	Cys	Val	Asp	Thr
			180					185					190		
Ser	Leu	Cys	Glu	Ile	Leu	Leu	Phe	Ile	Phe	Ala	Gly	Phe	Asn	Leu	Leu
		195				200						205			
Ser	Cys	Thr	Leu	Thr	Ile	Leu	Ile	Ser	Tyr	Phe	Leu	Ile	Leu	Asn	Thr
	210				215						220				
Ile	Leu	Lys	Met	Ser	Ser	Ala	Gln	Gly	Arg	Phe	Lys	Ala	Phe	Ser	Thr
225				230					235						240
Cys	Ala	Ser	His	Leu	Thr	Ala	Ile	Cys	Leu	Phe	Phe	Gly	Thr	Thr	Leu
			245					250						255	
Phe	Met	Tyr	Leu	Arg	Pro	Arg	Ser	Ser	Tyr	Ser	Leu	Thr	Gln	Asp	Arg
			260				265						270		
Thr	Val	Ala	Val	Ile	Tyr	Thr	Val	Val	Ile	Pro	Val	Leu	Asn	Pro	Leu
		275				280						285			
Met	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Lys	Ala	Leu	Ile	Lys	Val
	290				295						300				
Trp	Gly	Arg	Lys	Thr	Met	Glu									
305					310										



<210> 1994  
 <211> 316  
 <212> PRT  
 <213> Unknown (H38g912 protein)

<220>  
 <223> Synthetic construct

<400> 1994  
 Met Gln Asn Gln Ser Phe Val Thr Glu Phe Val Leu Leu Gly Leu Ser  
 1 5 10 15  
 Gln Asn Pro Asn Val Gln Glu Ile Val Phe Val Val Phe Leu Phe Val  
 20 25 30  
 Tyr Ile Ala Thr Val Gly Gly Asn Met Leu Ile Val Val Thr Ile Leu  
 35 40 45  
 Ser Ser Pro Ala Leu Leu Val Ser Pro Met Tyr Phe Phe Leu Gly Phe  
 50 55 60  
 Leu Ser Phe Leu Asp Ala Cys Phe Ser Ser Val Ile Thr Pro Lys Met  
 65 70 75 80  
 Ile Val Asp Ser Leu Tyr Val Thr Lys Thr Ile Ser Phe Glu Gly Cys  
 85 90 95  
 Met Met Gln Leu Phe Ala Glu His Phe Phe Ala Gly Val Glu Val Ile  
 100 105 110  
 Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro  
 115 120 125  
 Leu His Tyr Ser Ser Ile Met Asn Arg Arg Leu Cys Gly Ile Leu Met  
 130 135 140  
 Gly Val Ala Trp Thr Gly Gly Leu Leu His Ser Met Ile Gln Ile Leu  
 145 150 155 160  
 Phe Thr Phe Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe  
 165 170 175  
 Met Cys Asp Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His  
 180 185 190  
 Ile Phe Gly Leu Met Val Val Ile Asn Ser Gly Phe Ile Cys Ile Ile  
 195 200 205  
 Asn Phe Ser Leu Leu Leu Val Ser Tyr Ala Val Ile Leu Leu Ser Leu  
 210 215 220  
 Arg Thr His Ser Ser Glu Gly Arg Trp Lys Ala Leu Ser Thr Cys Gly  
 225 230 235 240  
 Ser His Ile Ala Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Val  
 245 250 255  
 Tyr Thr Arg Pro Pro Ser Ala Phe Ser Leu Asp Lys Met Ala Ala Ile  
 260 265 270  
 Phe Tyr Ile Ile Leu Asn Pro Leu Leu Asn Pro Leu Ile Tyr Thr Phe  
 275 280 285  
 Arg Asn Lys Glu Val Lys Gln Ala Met Arg Arg Ile Trp Asn Arg Leu  
 290 295 300  
 Met Val Val Ser Asp Glu Lys Glu Asn Ile Lys Leu  
 305 310 315

<210> 1995  
 <211> 310  
 <212> PRT  
 <213> Unknown (H38g913 protein)

<220>  
 <223> Synthetic construct

<400> 1995  
 Met Gln Leu Asn Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr

```

1           5           10           15
Gln Asp Pro Phe Trp Lys Lys Ile Val Phe Val Ile Phe Leu Arg Leu
20
Tyr Leu Gly Thr Leu Leu Gly Asn Leu Leu Ile Ile Ile Ser Val Lys
35
Ala Ser Gln Ala Leu Lys Asn Pro Met Phe Phe Phe Leu Phe Tyr Leu
50
Ser Leu Ser Asp Thr Cys Leu Ser Thr Ser Ile Ala Pro Arg Met Ile
65
Val Asp Ala Leu Leu Lys Lys Thr Thr Ile Ser Phe Ser Glu Cys Met
85
Ile Gln Val Phe Ser Ser His Val Phe Gly Cys Leu Glu Ile Phe Ile
100
Leu Ile Leu Thr Ala Val Asp Arg Tyr Val Asp Ile Cys Lys Pro Leu
115
His Tyr Met Thr Ile Ile Ser Gln Trp Val Cys Gly Val Leu Met Ala
130
Val Ala Trp Val Gly Ser Cys Val His Ser Leu Val Gln Ile Phe Leu
145
Ala Leu Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Cys Phe
165
Cys Asp Leu Gln Pro Leu Leu Lys Gln Ala Cys Ser Glu Thr Tyr Val
180
Val Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ala Val Ser
195
Tyr Val Met Leu Ile Phe Ser Tyr Val Ile Phe Leu His Ser Leu Arg
210
Asn His Ser Ala Glu Val Ile Lys Lys Ala Leu Ser Thr Cys Val Ser
225
His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Met Tyr
245
Thr Cys Pro Ala Thr Val Phe Pro Met Asp Lys Met Ile Ala Val Phe
260
Tyr Thr Val Gly Thr Ser Phe Leu Asn Pro Val Ile Tyr Thr Leu Lys
275
Asn Thr Glu Val Lys Ser Ala Met Arg Lys Leu Trp Ser Lys Lys Leu
290
Ile Thr Asp Asp Lys Arg
305
310

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&lt;210&gt; 1996

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g914 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(321)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1996

```

Met Glu Thr Thr Asn His Ser Ala Val Thr Glu Phe Phe Leu Val Gly
1           5           10           15
Leu Ser Gln Tyr Pro Glu Leu Gln Leu Phe Leu Phe Leu Leu Cys Leu
20
Ile Met Tyr Met Ile Ile Leu Leu Gly Asn Ser Phe Leu Ile Ile Ile
35
Thr Ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly
50
55
60

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Asn Leu Ser Phe Leu Gly Ile Cys Tyr Thr Ser Ser Ser Ile Pro Pro
65          70          75          80
Met Leu Ile Ile Phe Val Ser Glu Arg Lys Ser Ile Ser Phe Ile Gly
      85          90          95
Cys Ala Leu Gln Met Val Val Ser Leu Gly Leu Gly Ser Ile Glu Cys
      100        105        110
Ile Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
      115        120        125
Pro Leu Arg Tyr Ser Ile Ile Met Asn Arg Val Leu Tyr Val Gln Met
      130        135        140
Ala Ala Trp Ser Trp Ile Ile Gly Cys Leu Thr Ser Leu Leu Arg Thr
145          150        155        160
Val Leu Thr Met Met Leu Pro Phe Cys Gly Asn Asn Ile Ile Asp His
      165        170        175
Leu Thr Cys Glu Ile Leu Ala Leu Leu Lys Val Ile Cys Ser Asp Ile
      180        185        190
Ser Ile Asn Val Phe Ile Met Thr Val Ser Ser Ile Val Leu Leu Val
      195        200        205
Ile Leu Leu Ile Phe Ile Ser Tyr Val Phe Ile Leu Ser Ser Ile Leu
      210        215        220
Arg Ile Asn Ser Ala Glu Gly Arg Lys Lys Ala Phe Phe Thr Cys Ser
225          230        235        240
Ala His Leu Thr Val Val Ile Leu Phe Tyr Gly Ser Val Leu Phe Met
      245        250        255
His Met Lys Pro Lys Ser Lys Phe Thr Thr Ala Ser Asp Glu Ile Ile
      260        265        270
Gly Leu Ser Tyr Glu Val Ile Thr Pro Met Asn Pro Ile Ile Tyr Ser
      275        280        285
Leu Arg Asn Lys Glu Ile Lys Glu Ala Val Lys Lys Ile Leu Ser Arg
      290        295        300
His Val His Leu Trp Lys Ile Xaa Lys Ala Leu Arg His Val Thr Phe
305          310        315        320
Ser

```

&lt;210&gt; 1997

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g915 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(177)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1997

```

Ala Val Xaa Trp Ile Ser Ala Glu Phe Ala Leu Pro Met Tyr Phe Phe
1          5          10          15
Leu Lys Asn Leu Ser Val Leu Asp Leu Cys Tyr Ile Ser Val Thr Val
      20        25        30
Pro Lys Ser Ile Arg Asn Ser Leu Thr Arg Arg Ser Ser Ile Ser Tyr
      35        40        45
Leu Gly Cys Val Ala Gln Ala Tyr Phe Phe Ser Ala Phe Ala Ser Ala
      50        55        60
Glu Leu Ala Phe Leu Thr Val Met Ser Tyr Asp Arg Tyr Val Ala Ile
65          70          75          80
Cys His Pro Leu Gln Tyr Arg Ala Val Met Thr Ser Gly Gly Cys Tyr
      85        90        95
Gln Met Ala Val Thr Thr Trp Leu Ser Cys Phe Ser Tyr Ala Ala Val

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                100                105                110
His Thr Gly Asn Met Phe Arg Glu His Val Cys Arg Ser Asn Val Ile
                115                120                125
His Gln Phe Phe Arg Asp Ile Pro Gln Val Leu Ala Leu Val Ser Xaa
                130                135                140
Glu Val Phe Phe Val Glu Leu Xaa Pro Ser Pro Glu Pro Gln Cys Leu
145                150                155                160
Asp Leu Gly Cys Phe Ile Pro Met Met Ile Ser Asn Phe Pro Asn Leu
                165                170                175
Leu

```

&lt;210&gt; 1998

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g916 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(191)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1998

```

Val Xaa Trp Ile Ser Ala Glu Phe Ala Leu Pro Met Tyr Leu Phe Leu
 1                5                10                15
Ser Asp Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro
                20                25                30
Gln Met Leu Val Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu
 35                40                45
Gly Cys Ser Val Gln Leu Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu
 50                55                60
Cys Ile Leu Leu Thr Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys
65                70                75                80
Gln Pro Leu His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln
                85                90                95
Leu Ala Ser Val Ala Trp Val Met Ser Leu Val Gln Ser Ile Val Gln
                100                105                110
Thr Ser Ser Thr Leu His Leu Pro Phe Cys Pro His Gln Gln Ile Asp
                115                120                125
Asp Phe Leu Cys Glu Val Pro Ser Leu Ile Arg Leu Ser Xaa Gly Asp
                130                135                140
Thr Ser Tyr Asn Glu Ile Gln Leu Thr Val Ser Ser Val Ile Leu Val
145                150                155                160
Asp Val Pro Leu Ser Leu Ile Leu Ala Ser Tyr Gly Ala Thr Ala Gln
                165                170                175
Ala Gly Leu Arg Ile Asn Phe Ala Lys Ala Trp Lys Lys Gly Leu
                180                185                190

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&lt;210&gt; 1999

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g921 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1999

```

Cys Tyr Pro Leu Gln Leu Arg Lys Pro Phe Met Ser Ser Leu Ala Leu
 1                5                10                15

```

Gln Ala Gln Ala Trp Pro Trp Val Pro Gly Ser Gly Gly Phe Val Ala  
                   20                  25                  30  
 Ile Ala Val Pro Thr Ser Pro Ser Ser Gly Leu Ser Phe Cys Gly  
           35                  40                  45  
 Pro Pro Val Ala Ile Asn His Phe Leu Ser Cys Asp Ile Ala Pro Leu  
       50                  55                  60  
 Ile Ala Leu Ala Cys Thr Gln His Thr Gly Ser Glu Ser Phe Val Ala  
 65                  70                  75                  80  
 Phe Val Ile Ala Val Val Ile Leu Ser Ser Cys Leu Ile Thr Leu  
                   85                  90                  95  
 Val Ser His Met Cys Thr Ser Ser Ser Thr Ile Leu Arg Ile Pro Ser  
           100                  105                  110  
 Ala Ser Gly Arg Lys Gln Ser Leu Ser Pro Arg Ala Pro Arg His Leu  
           115                  120                  125  
 Thr Val Val Leu Ile Leu  
       130

&lt;210&gt; 2000

&lt;211&gt; 196

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g924 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(196)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2000

Thr Pro Pro Met Tyr Phe Leu Phe Leu Gly Glu Ala Glu Cys Phe Leu  
   1                  5                  10                  15  
 Leu Ala Thr Met Glu Tyr Asp Arg Tyr Glu Asp Ile Cys Ser Pro Leu  
           20                  25                  30  
 Asn Tyr Pro Val Ile Met Asn Gln Arg Thr Arg Ala Lys Leu Ala Gly  
       35                  40                  45  
 Asp Ser Trp Val Pro Ser Phe Pro Glu Ala Thr Glu Gln Ala Thr Met  
       50                  55                  60  
 Ala Leu Arg Phe Pro Phe Xaa Gly Thr Asn Lys Val Asn His Leu Phe  
 65                  70                  75                  80  
 Leu Arg Gln Pro Ala Val Leu Lys Ala Gly Leu Met Gln Asp Thr Ala  
                   85                  90                  95  
 Leu Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val Ala Met Asn  
           100                  105                  110  
 Pro Cys Leu Leu Ile Leu Ser Ser Tyr Thr Arg Ile Gly Ala Ala Ile  
           115                  120                  125  
 Pro Gln Glu Pro Ile Lys Leu Lys Gly Lys Gln Xaa Arg Pro Phe Ser  
       130                  135                  140  
 Thr Cys Ser Xaa His Leu Pro Trp Trp Pro Leu Phe Ser Asn Ile Ile  
 145                  150                  155                  160  
 Ile Xaa Ala Ser Thr Tyr Phe Leu Gly Leu Lys Ser Asn Lys Phe Phe  
                   165                  170                  175  
 Trp Arg Gly Lys Lys Val Val Phe Ile Tyr Thr Thr Leu Val Glu Thr  
           180                  185                  190  
 Pro Xaa Trp Asn  
       195

&lt;210&gt; 2001

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g925 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(128)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2001

His	Cys	Met	Phe	Leu	Ala	His	Gly	Ser	Pro	Leu	Pro	Pro	Thr	Gln	Leu
1				5					10					15	
Pro	Ile	Xaa	Phe	Cys	Asp	Tyr	Ile	Ser	His	Arg	Tyr	Leu	Thr	Cys	His
			20					25					30		
Leu	Ser	Leu	Pro	Asn	Ser	Phe	Ser	Ser	Ser	Phe	Pro	Tyr	Gln	Xaa	Ile
		35					40					45			
Leu	Pro	Leu	Ser	Leu	Leu	Ala	Gln	Ala	Arg	Asn	Pro	Gly	Ile	Ile	Phe
		50				55					60				
Phe	Leu	Pro	Thr	Phe	Asn	Ala	Leu	Xaa	Ser	Pro	Val	His	Ser	Thr	Ser
65					70				75						80
Xaa	Arg	Leu	Ser	Leu	Ser	Thr	Tyr	Tyr	Tyr	Ala	Ser	Gln	Glu	Thr	Ile
				85				90						95	
Ser	Pro	Arg	Phe	Asp	Ser	Thr	Ala	Val	Ala	Ser	Tyr	Leu	Ile	Phe	Leu
			100					105					110		
His	Leu	Leu	Trp	Pro	Ile	Phe	Asn	Pro	Phe	Ile	Tyr	Cys	Leu	Arg	Asn
		115					120					125			

&lt;210&gt; 2002

&lt;211&gt; 192

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g926 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 2002

Phe	Phe	Leu	Thr	Leu	Ala	Gly	Ala	Glu	Ala	Leu	Leu	Leu	Thr	Ser	Met
1				5					10					15	
Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	His	Tyr	Leu	Ile
			20					25					30		
Arg	Met	Arg	Lys	Arg	Val	Cys	Ala	Leu	Met	Ile	Thr	Gly	Ser	Trp	Met
		35					40					45			
Ile	Gly	Ser	Ile	Asn	Ser	Cys	Ala	His	Thr	Val	Tyr	Ala	Leu	Arg	Ile
		50				55					60				
Pro	Tyr	Cys	Lys	Ser	Arg	Ala	Ile	Asn	His	Phe	Phe	Cys	Asp	Val	Pro
65					70				75						80
Ala	Met	Leu	Thr	Leu	Ala	Cys	Thr	Asp	Thr	Trp	Val	Tyr	Glu	Cys	Thr
				85				90						95	
Val	Phe	Leu	Ser	Thr	Thr	Ile	Phe	Leu	Val	Phe	Pro	Phe	Ile	Cys	Ile
			100					105					110		
Ala	Cys	Ser	Tyr	Gly	Arg	Ile	Leu	Leu	Ala	Val	Tyr	His	Met	His	Ser
		115					120					125			
Ala	Glu	Gly	Arg	Lys	Lys	Ala	Tyr	Ser	Thr	Cys	Ser	Thr	His	Leu	Thr
		130				135					140				
Val	Val	Thr	Phe	Tyr	Tyr	Ala	Pro	Phe	Ala	Tyr	Thr	Tyr	Leu	Arg	Pro
145					150				155						160
Lys	Ser	Leu	Arg	Ser	Pro	Thr	Glu	Asp	Lys	Val	Leu	Ala	Val	Phe	Phe
				165				170						175	
Phe	Ile	Ser	Ser	Phe	Ser	Ser	Asn	Pro	Phe	Met	Tyr	Thr	Leu	Arg	Asn
			180					185					190		

&lt;210&gt; 2003

<211> 158  
 <212> PRT  
 <213> Unknown (H38g927 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(158)  
 <223> Xaa = Any Amino Acid

<400> 2003  
 Pro Met Tyr Phe Phe Leu Ser Met Leu Ser Ile Ser Glu Thr Cys Tyr  
 1 5 10 15  
 Met Val Ala Ile Thr Pro His Met Leu Ser Arg Leu Leu Asn Pro His  
 20 25 30  
 Xaa Leu Ile Val Met Gln Gly Cys Val Thr Gln Leu Phe Tyr Val Thr  
 35 40 45  
 Phe Gly Ile Asn Asn Cys Phe Leu Leu Ile Ala Met Gly Tyr Asp Cys  
 50 55 60  
 Tyr Val Val Phe Cys Asn Pro Leu Arg Tyr Ser Xaa Val Arg Gly Leu  
 65 70 75 80  
 Cys Val Xaa Leu Gly Ser Gly Ser Leu Arg Ile Gly Leu Gly Met Ala  
 85 90 95  
 Ile Val Gln Val Thr Ser Met Phe Gly Leu Pro Phe Cys Asp Asp Phe  
 100 105 110  
 Val Ile Ser His Phe Phe Cys Asp Val Arg Pro Leu Leu Lys Leu Ala  
 115 120 125  
 Cys Thr Asp Thr Thr Val Asn Glu Ile Ile Asn Phe Val Val Ser Val  
 130 135 140  
 Cys Val Leu Val Leu His Ile Ala Leu Ile Phe Ile Ser Tyr  
 145 150 155

<210> 2004  
 <211> 192  
 <212> PRT  
 <213> Unknown (H38g928 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(192)  
 <223> Xaa = Any Amino Acid

<400> 2004  
 Leu Leu Ala Thr Lys Ala Tyr Asp Xaa Tyr Val Pro Ile Arg His Pro  
 1 5 10 15  
 Phe Pro Tyr Pro Thr Arg Met Ser Pro Ala Met Cys Ala Ala Leu Val  
 20 25 30  
 Gly Met Ala Trp Leu Val Ser His Gly Asn Ser Leu Leu Tyr Ile Leu  
 35 40 45  
 Leu Met Ala Arg Leu Ser Phe Leu Cys Phe Pro Thr Lys Cys Thr His  
 50 55 60  
 Phe Phe Cys Asp Pro Pro Ser Leu Ser Xaa Arg Leu Ser Cys Ser Asp  
 65 70 75 80  
 Asn His Thr Ser Lys Leu Leu Ile Phe Thr Lys Gly Ala Ala Val Val  
 85 90 95  
 Val Thr Pro Leu Leu Leu Ile Leu Ala Ser Leu Trp Asp His Asn Lys  
 100 105 110  
 Leu Thr Val Leu Gln Leu Pro Ser Thr Ser Gly Arg Leu Arg Asp Leu





<210> 2007  
 <211> 187  
 <212> PRT  
 <213> Unknown (H38g931 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(187)  
 <223> Xaa = Any Amino Acid

<400> 2007  
 Val Xaa Trp Ile Ser Ala Glu Phe Ala Leu Pro Met Tyr Leu Leu Leu  
 1 5 10 15  
 Ser Gln Leu Ser Leu Met Asp Leu Met Tyr Ile Ser Thr Thr Val Pro  
 20 25 30  
 Lys Met Ala Tyr Asn Phe Leu Ser Gly Gln Lys Gly Ile Ser Phe Leu  
 35 40 45  
 Gly Cys Gly Val Gln Ser Phe Phe Phe Leu Thr Met Ala Cys Ser Glu  
 50 55 60  
 Gly Leu Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys  
 65 70 75 80  
 His Ser Leu Tyr Tyr Pro Ile Arg Met Ser Lys Met Met Cys Val Lys  
 85 90 95  
 Met Ile Gly Gly Ser Trp Thr Leu Gly Ser Ile Asn Ser Leu Ala His  
 100 105 110  
 Thr Val Phe Ala Leu His Ile Pro Tyr Cys Arg Ser Arg Ala Ile Asp  
 115 120 125  
 His Phe Phe Cys Asp Val Pro Ala Met Leu Leu Leu Ser Cys Thr Asp  
 130 135 140  
 Thr Trp Val Tyr Glu Tyr Met Val Leu Xaa Gly Gln Ser Leu Phe Leu  
 145 150 155 160  
 Leu Leu Pro Phe Ile Gly Ile Thr Ser Ser Glu Gly Arg Val Leu Ile  
 165 170 175  
 Ala Gly Tyr Ile Met His Ser Lys Glu Gly Arg  
 180 185

<210> 2008  
 <211> 62  
 <212> PRT  
 <213> Unknown (H38g934 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(62)  
 <223> Xaa = Any Amino Acid

<400> 2008  
 Gly Gly Asn Arg Lys Lys Arg Glu Lys Glu Gly Arg Lys Lys Arg Lys  
 1 5 10 15  
 Val Arg Lys Lys Thr Gly Xaa Gly Arg Xaa Glu Val Gly Leu Leu Lys  
 20 25 30  
 Gly Ser Asn Ile Val Met Tyr Met Ala Pro Lys Tyr Arg His Pro Glu  
 35 40 45  
 Glu Gln Gln Lys Val Leu Phe Leu Phe Tyr Ser Ser Phe Asn  
 50 55 60

<210> 2009  
 <211> 103  
 <212> PRT  
 <213> Homo sapien (1000494-1-1-323)

<400> 2009  
 Pro Tyr Tyr Phe Cys Asp Leu Thr Pro Ile Leu Arg Leu Ser Val Thr  
 1 5 10 15  
 Asp Thr Ser Cys Asn Arg Ile Phe Ile Leu Ile Val Ala Gly Met Val  
 20 25 30  
 Ile Ala Thr Pro Phe Val Cys Ile Leu Ala Pro Tyr Ala Arg Ile Leu  
 35 40 45  
 Val Ala Ile Met Lys Val Pro Ser Ala Gly Gly Arg Lys Lys Ala Phe  
 50 55 60  
 Ser Ala Cys Ser Ser His Leu Ser Val Val Ala Leu Phe Tyr Gly Thr  
 65 70 75 80  
 Thr Ile Gly Val Tyr Leu Cys Arg Ser Ser Val Leu Thr Thr Ala Lys  
 85 90 95  
 Glu Lys Ala Ser Ala Val Met  
 100

<210> 2010  
 <211> 314  
 <212> PRT  
 <213> Homo sapien (1336040-1-1-945)

<400> 2010  
 Met Glu Phe Thr Asp Arg Asn Tyr Thr Leu Val Thr Glu Phe Ile Leu  
 1 5 10 15  
 Leu Gly Phe Pro Thr Arg Pro Glu Leu Gln Ile Val Leu Phe Leu Met  
 20 25 30  
 Phe Leu Thr Leu Tyr Ala Ile Ile Leu Ile Gly Asn Ile Gly Leu Met  
 35 40 45  
 Leu Leu Ile Arg Ile Asp Pro His Leu Gln Thr Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Ser Asn Leu Ser Phe Val Asp Leu Cys Tyr Phe Ser Asp Ile Val  
 65 70 75 80  
 Pro Lys Met Leu Val Asn Phe Leu Ser Glu Asn Lys Ser Ile Ser Tyr  
 85 90 95  
 Tyr Gly Cys Ala Leu Gln Phe Tyr Phe Phe Cys Thr Phe Ala Asp Thr  
 100 105 110  
 Glu Ser Phe Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile  
 115 120 125  
 Cys Asn Pro Leu Leu Tyr Thr Val Val Met Ser Arg Gly Ile Cys Met  
 130 135 140  
 Arg Leu Ile Val Leu Ser Tyr Leu Gly Gly Asn Met Ser Ser Leu Val  
 145 150 155 160  
 His Thr Ser Phe Ala Phe Ile Leu Lys Tyr Cys Asp Lys Asn Val Ile  
 165 170 175  
 Asn His Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ser Cys Thr  
 180 185 190  
 Asp Thr Thr Ile Asn Glu Trp Leu Leu Ser Thr Tyr Gly Ser Ser Val  
 195 200 205  
 Glu Ile Ile Cys Phe Ile Ile Ile Ile Ile Ser Tyr Phe Phe Ile Leu  
 210 215 220  
 Leu Ser Val Leu Lys Ile Arg Ser Phe Ser Gly Arg Lys Lys Thr Phe  
 225 230 235 240  
 Ser Thr Cys Ala Ser His Leu Thr Ser Val Thr Ile Tyr Gln Gly Thr  
 245 250 255  
 Leu Leu Phe Ile Tyr Ser Arg Pro Ser Tyr Leu Tyr Ser Pro Asn Thr  
 260 265 270

Asp Lys Ile Ile Ser Val Phe Tyr Thr Ile Phe Ile Pro Val Leu Asn  
 275 280 285  
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ala Glu  
 290 295 300  
 Lys Val Leu Arg Ser Lys Val Asp Ser Ser  
 305 310

&lt;210&gt; 2011

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (1336042-1-1-954)

&lt;400&gt; 2011

Met Gly Thr Asp Asn Gln Thr Trp Val Ser Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Ser Asp Trp Asp Thr Arg Val Ser Leu Phe Val Leu Phe Leu  
 20 25 30  
 Val Met Tyr Val Val Thr Val Leu Gly Asn Cys Leu Ile Val Leu Leu  
 35 40 45  
 Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr  
 50 55 60  
 Asn Leu Ser Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro Gln  
 65 70 75 80  
 Leu Leu Ala His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser  
 85 90 95  
 Cys Ala Ala Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe  
 100 105 110  
 Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asp  
 115 120 125  
 Ala Leu Arg Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu  
 130 135 140  
 Ala Ile Thr Ser Trp Val Ser Gly Phe Ile Ser Ser Pro Val Gln Thr  
 145 150 155 160  
 Ala Ile Thr Phe Gln Leu Pro Met Cys Arg Asn Lys Phe Ile Asp His  
 165 170 175  
 Ile Ser Cys Glu Leu Leu Ala Val Val Arg Leu Ala Cys Val Asp Thr  
 180 185 190  
 Ser Ser Asn Glu Val Thr Ile Met Val Ser Ser Ile Val Leu Leu Met  
 195 200 205  
 Thr Pro Leu Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr  
 210 215 220  
 Ile Leu Lys Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Thr Val Val Ala Leu Cys Tyr Gly Val Ala Ile  
 245 250 255  
 Phe Thr Tyr Ile Gln Pro His Ser Ser Pro Ser Val Leu Gln Glu Lys  
 260 265 270  
 Leu Phe Ser Val Phe Tyr Ala Ile Leu Thr Pro Met Leu Asn Pro Met  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Trp Gln Lys Leu  
 290 295 300  
 Leu Trp Lys Phe Ser Gly Leu Thr Ser Lys Leu Ala Thr  
 305 310 315

&lt;210&gt; 2012

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (1369835-1-20155-22741)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(318)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2012

```

Met Asp Arg Val Asn Asn Ser Ala Val Ser Lys Phe Val Leu Ile Gly
 1          5          10          15
Leu Ser Ser Ser Trp Glu Met His Leu Phe Leu Phe Trp Phe Phe Ser
 20          25          30
Val Phe Tyr Met Gly Ile Ile Leu Glu Asn Leu Phe Ile Val Phe Thr
 35          40          45
Val Ile Ile Asp Ser His Leu Asn Ser Pro Val Tyr Cys Leu Leu Ala
 50          55          60
Asn Ile Tyr Leu Leu Asp Leu Val Phe Ser Tyr Ser Ser Asp Phe Phe
 65          70          75
Thr Asn Cys Ser Ile Ile Ser Phe Pro Arg Cys Met Ile Gln Ile Phe
 85          90          95
Phe Ile Cys Val Met Arg Lys Ile Glu Met Val Leu Leu Ile Thr Met
100          105          110
Ala Xaa Ser Arg Tyr Thr Ala Ile Cys Lys Pro Pro His Tyr Leu Thr
115          120          125
Thr Met Asn Pro Lys Met Cys Val Ser Leu Leu Glu Ala Ser Trp Ile
130          135          140
Val Arg Ile Ile His Ala Val Ser Gln Phe Val Phe Ala Ile Asn Leu
145          150          155
Pro Phe Cys Gly Pro Asn Arg Val Gly Ser Phe His Cys Asp Phe Pro
165          170          175
Tyr Val Met Lys Leu Ala Cys Val Asp Thr Tyr Lys Leu Glu Val Val
180          185          190
Val Thr Ala Asn Ser Gly Leu Ile Ser Ile Ala Thr Cys Phe Leu Leu
195          200          205
Ile Ile Ser Tyr Ile Phe Ile Ser Val Thr Val Xaa Asn Pro Ser Ser
210          215          220
Gly Asp Leu Ser Lys Ala Phe Val Ser Cys Ser Asp His Ile Thr Val
225          230          235
Gly Ile Leu Phe Phe Met Pro Cys Ile Phe Leu Tyr Val Xaa Pro Leu
245          250          255
Pro Lys Thr Thr His Asp Xaa Tyr Leu Phe Ile Val Pro Leu Leu Ser
260          265          270
Pro Leu Ser Arg Ile Tyr Thr Leu Arg Asn Lys Asp Met Asn Val Ser
275          280          285
Met Glu Arg Leu Gly Lys Trp Ile Ala Gly Ser Ser Arg Met Ser Xaa
290          295          300
Xaa Met Val Leu Ser Arg Val Gln Asp Asp Ser Val Ser Pro
305          310          315

```

&lt;210&gt; 2013

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (1857946-1-1-1049)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(319)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2013

```

Phe Ser Ser Val Asn Asn Ser Cys Pro Arg Asn Val Arg Pro Val Leu
 1          5          10          15
Ser Val Trp Ala Met Tyr Leu Val Met Ile Gly Ser Ile Val Met Thr
 20          25          30
Met Leu Gly Asn Met Ile Val Met Ile Ser Ile Ala His Phe Lys Gln

```

35	40	45
Leu His Ser Pro Thr Asn Phe	Leu Ile Leu Ser Met	Ala Ile Thr Asp
50	55	60
Phe Leu Leu Ser Cys Val Val Met	Pro Phe Ser Val	Ile Thr Ser Ile
65	70	75
Glu Ser Cys Trp Tyr Phe Gly Asp	Leu Phe Cys Lys	Val His Ser Cys
85	90	95
Cys Asp Ile Ile Leu Cys Thr Thr	Ser Ile Phe His	Leu Cys Phe Ile
100	105	110
Ser Val Asp Arg Tyr Asp Ala Val	Xaa Asp Pro Leu	Gln Tyr Val Thr
115	120	125
Arg Ile Thr Ile Pro Val Ile Glu	Leu Phe Leu Leu	Ile Ser Trp Ser
130	135	140
Ile Pro Ile Leu Phe Ala Phe Gly	Leu Val Phe Ser	Lys Leu Asn Ile
145	150	155
Ile Gly Ala Glu Glu Phe Val Ala	Ala Ile Asp Cys	Thr Gly Leu Cys
165	170	175
Val Leu Ile Phe Asn Lys Pro Gly	Gly Val Leu Ala	Ser Phe Ile Ala
180	185	190
Phe Phe Leu Pro Gly Thr Thr Thr	Val Gly Ile Tyr	Ile His Ile Phe
195	200	205
Thr Val Ala Arg Lys His Ala Met	Gln Ile Gly Thr	Gly Ser Arg Thr
210	215	220
Lys Gln Ala Gly Ser Glu Ser Lys	Lys Lys Trp His	Pro Leu Lys Arg
225	230	235
Glu Ser Lys Ala Thr Arg Thr Leu	Gly Ile Val Met	Gly Val Phe Val
245	250	255
Leu Cys Trp Leu Pro Phe Phe Val	Leu Thr Ile Thr	Asp Pro Phe Ile
260	265	270
Asn Phe Thr Thr Leu Glu Asp Leu	Tyr Asn Val Phe	Leu Trp Leu Gly
275	280	285
Tyr Phe Asn Ser Ala Phe Asn Ser	Ile Leu Tyr Gly	Met Leu Tyr Pro
290	295	300
Trp Phe Arg Lys Ala Leu Arg Met	Ile Val Thr Gly	Met Ile Phe
305	310	315

&lt;210&gt; 2014

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2358019-1-250070-250529)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(134)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2014

Leu Leu Phe Leu Met Phe Phe Ile Thr	Ser Leu Gly His Lys Phe His
1	5
Leu Ile Ser Phe Pro Phe Ser Gln Gln	Thr Thr Xaa Gln Lys Tyr Phe
20	25
Ile Ile Phe Glu Val Xaa Leu Cys Xaa	Xaa His Thr Leu Thr Ala Leu
35	40
Ile Tyr Cys Xaa Met Ser Leu Phe Xaa	Gly Ile Asp Leu Phe Val Gly
50	55
Tyr Asn Pro Cys Ser Pro Arg Val Leu	Phe Leu Phe Leu Gly Arg Gly
65	70
Pro Ser Gly Phe Ser Leu Glu Ser Leu	Ser Phe Tyr Arg Thr Ser Phe
85	90
Thr Trp Gln His Leu His Leu Lys Phe	Tyr Cys Pro Ser Xaa Gly Xaa
100	105
	110

Leu Leu Lys Ser Phe Leu Ser Ala Ile Trp Leu Leu Phe Ser Thr Tyr  
 115 120 125  
 Phe Leu Arg Val Leu Ser  
 130

<210> 2015  
 <211> 127  
 <212> PRT  
 <213> Homo sapien (2447218-1-32642-33129)

<220>  
 <221> VARIANT  
 <222> (1)...(127)  
 <223> Xaa = Any Amino Acid

<400> 2015  
 Asn Leu Leu Pro Val Trp Thr Pro Gly Ser Arg Val Pro Ser Xaa Ser  
 1 5 10 15  
 Gln Ile Ser Val Ser Glu Lys Gln Gly Met Ser Phe Pro Lys Lys Leu  
 20 25 30  
 Phe Gln Asn His Lys Leu Phe Leu Leu Phe Ala Gly Met Asn Val Phe  
 35 40 45  
 Leu Gln Thr Val Met Ala Tyr Asp His Phe Val Ala Ile Cys His Pro  
 50 55 60  
 Leu His Tyr Arg Val Ile Met Asn Pro Gly Ile Phe Gly Leu Trp Val  
 65 70 75 80  
 Leu Val Ser Trp Ser Met Ser Ala Leu Asn Ser Ser Leu Gln Ser Arg  
 85 90 95  
 Met Val Leu Gln Leu Ser Phe Cys Thr Asn Leu Glu Ile Pro His Ile  
 100 105 110  
 Phe Phe Cys Glu Leu Asn Gln Leu Ile Leu Leu Ala Cys Ser Asn  
 115 120 125

<210> 2016  
 <211> 216  
 <212> PRT  
 <213> Homo sapien (2921627-1-1-649)

<400> 2016  
 Leu Ile Asp Met Met Tyr Ile Ser Thr Ile Val Pro Lys Met Leu Val  
 1 5 10 15  
 Asn Tyr Leu Leu Asp Gln Arg Thr Ile Ser Phe Val Gly Cys Thr Ala  
 20 25 30  
 Gln His Phe Leu Tyr Leu Thr Leu Val Gly Ala Glu Phe Phe Leu Leu  
 35 40 45  
 Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg  
 50 55 60  
 Tyr Pro Val Leu Met Ser Arg Arg Val Cys Trp Met Ile Ile Ala Gly  
 65 70 75 80  
 Ser Trp Phe Gly Gly Ser Leu Asp Gly Phe Leu Leu Thr Pro Ile Thr  
 85 90 95  
 Met Ser Phe Pro Phe Cys Asn Ser Arg Glu Ile Asn His Phe Phe Cys  
 100 105 110  
 Glu Ala Pro Ala Val Leu Lys Leu Ala Cys Ala Asp Thr Ala Leu Tyr  
 115 120 125  
 Glu Thr Val Met Tyr Val Cys Cys Val Leu Met Leu Leu Ile Pro Phe  
 130 135 140  
 Ser Val Val Leu Ala Ser Tyr Ala Arg Ile Leu Thr Thr Val Gln Cys  
 145 150 155 160  
 Met Ser Ser Val Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys Ser Ser  
 165 170 175

His Met Thr Val Val Ser Leu Phe Tyr Gly Ala Ala Met Tyr Thr Tyr  
 180 185 190  
 Met Leu Pro His Ser Tyr His Lys Pro Ala Gln Asp Lys Val Leu Ser  
 195 200 205  
 Val Phe Tyr Thr Ile Leu Thr Pro  
 210 215

&lt;210&gt; 2017

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2921629-1-1-649)

&lt;400&gt; 2017

Phe Val Asp Met Gly Leu Thr Ser Ser Thr Val Thr Lys Met Leu Val  
 1 5 10 15  
 Asn Ile Gln Thr Arg His His Thr Ile Thr Tyr Thr Gly Cys Leu Thr  
 20 25 30  
 Gln Met Tyr Phe Phe Leu Met Phe Gly Asp Leu Asp Ser Phe Phe Leu  
 35 40 45  
 Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu Cys  
 50 55 60  
 Tyr Ser Thr Val Met Arg Pro Gln Val Cys Ala Leu Met Leu Ala Leu  
 65 70 75 80  
 Cys Trp Val Leu Thr Asn Ile Val Ala Leu Thr His Thr Phe Leu Met  
 85 90 95  
 Ala Arg Leu Ser Phe Cys Val Thr Gly Glu Ile Ala His Phe Phe Cys  
 100 105 110  
 Asp Ile Thr Pro Val Leu Lys Leu Ser Cys Ser Asp Thr His Ile Asn  
 115 120 125  
 Glu Met Met Val Phe Val Leu Gly Gly Thr Val Leu Ile Val Pro Phe  
 130 135 140  
 Leu Cys Ile Val Thr Ser Tyr Ile His Ile Val Pro Ala Ile Leu Arg  
 145 150 155 160  
 Val Arg Thr Arg Gly Gly Val Gly Lys Ala Phe Ser Thr Cys Ser Ser  
 165 170 175  
 His Leu Cys Val Val Cys Val Phe Tyr Gly Thr Leu Phe Ser Ala Tyr  
 180 185 190  
 Leu Cys Pro Pro Ser Ile Ala Ser Glu Glu Lys Asp Ile Ala Ala Ala  
 195 200 205  
 Ala Met Tyr Thr Ile Val Thr Pro  
 210 215

&lt;210&gt; 2018

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2921634-1-1-653)

&lt;400&gt; 2018

Cys His Ser Gln Val Ser Arg Leu Ala Gly Leu Gly Tyr Leu Glu Gly  
 1 5 10 15  
 Arg Arg Leu Ser Ser Ser Tyr Asn Ala Cys Ala Ala Gln Met Phe Phe  
 20 25 30  
 Phe Val Ala Leu Ala Thr Val Glu Asn Ile Leu Leu Thr Ser Met Ala  
 35 40 45  
 Tyr Asp His Tyr Ile Ala Val Cys Lys Pro Leu His Tyr Thr Thr Thr  
 50 55 60  
 Thr Ile Ala Ser Val Cys Ala His Leu Val Ile Gly Ser Tyr Val Cys  
 65 70 75 80  
 Gly Phe Leu Asn Ala Pro Leu Arg Ile Val Asp Ile Phe Ser Leu Ser  
 85 90 95  
 Phe Cys Lys Ser Asn Leu Val His His Leu Phe Cys Asp Val Pro Pro

```

      100      105      110
Val Met Ala Val Ser Cys Ser Gly Lys His Ile Ser Lys Lys Ile Leu
      115      120      125
Val Phe Met Ser Ser Phe Asn Val Phe Leu Ala Leu Val Ile Leu
      130      135      140
Thr Ser Tyr Leu Val Ile Phe Ile Thr Ile Leu Lys Met His Ser Ala
      145      150      155      160
Gln Gly His Leu Lys Ala Trp Ser Thr Gly Ala Pro His Leu Ile Ala
      165      170      175
Val Ser Ile Phe Tyr Gly Thr Thr Ile Phe Met Tyr Leu Gln Pro Ser
      180      185      190
Ser Ser His Ser Met Asp Thr Asp Glu Met Ala Ser Leu Phe Tyr Ala
      195      200      205
Val Phe Ile Ser
      210

```

&lt;210&gt; 2019

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2921639-1-1-647)

&lt;400&gt; 2019

```

Phe Val Asp Ile Cys Val Thr Ser Thr Thr Val Pro Lys Thr Leu Ser
  1      5      10      15
Asn Ile Arg Thr Gln Ser Lys Val Val Thr Tyr Ala Gly Cys Ile Thr
      20      25      30
Gln Met Tyr Phe Phe Val Leu Phe Ile Val Leu Asp Ser Leu Leu Leu
      35      40      45
Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro Leu His
      50      55      60
Tyr Thr Val Ile Val Asn Pro Arg Leu Cys Gly Leu Leu Val Leu Ala
      65      70      75      80
Ser Trp Ile Met Ser Ala Leu Asn Ser Leu Ile Glu Ser Leu Met Val
      85      90      95
Leu Pro Leu Leu Phe Cys Thr Asp Leu Lys Ile Pro His Phe Phe Cys
      100      105      110
Glu Leu Asn Gln Ile Ile Arg Ser Ala Cys Ser Asp Thr Phe Leu Asn
      115      120      125
Asp Met Val Met Tyr Met Ser Ala Val Leu Leu Gly Arg Gly Cys Phe
      130      135      140
Thr Gly Ile Leu Tyr Ser Tyr Phe Lys Thr Val Ser Ser Ile Arg Ala
      145      150      155      160
Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser
      165      170      175
His Leu Ser Val Val Ser Leu Phe Tyr Cys Met Gly Leu Gly Val Tyr
      180      185      190
Leu Ser Ala Ala Ala Pro Thr Thr His Ser Gln Val Gln Gln Pro Leu
      195      200      205
Met Tyr Thr Val Val Thr Pro
      210      215

```

&lt;210&gt; 2020

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2921641-1-1-636)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(212)

&lt;223&gt; Xaa = Any Amino Acid



&lt;400&gt; 2020

```

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Val
 1              5              10              15
Asp Ser Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
              20              25              30
Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Asp Ile Phe Val Leu
              35              40              45
Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu Arg
              50              55              60
Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
65              70              75              80
Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu Leu Thr
              85              90              95
Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr Phe Cys
              100              105              110
Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
              115              120              125
Ser Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
130              135              140
Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
145              150              155              160
Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
              165              170              175
Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Thr Phe Ile Tyr Arg
              180              185              190
Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
              195              200              205
Thr Ile Thr Pro
              210

```

&lt;210&gt; 2021

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2921661-1-1-649)

&lt;400&gt; 2021

```

Leu Ala Asp Ala Cys Phe Val Ser Thr Thr Val Pro Lys Met Leu Ala
 1              5              10              15
Asn Ile Gln Ile Gln Ser Gln Ala Ile Ser Tyr Ser Gly Cys Leu Leu
              20              25              30
Gln Leu Tyr Phe Phe Met Leu Phe Val Met Leu Glu Ala Phe Leu Leu
              35              40              45
Ala Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys His Pro Leu His
50              55              60
Tyr Ile Leu Ile Met Ser Pro Gly Leu Arg Ile Phe Leu Val Ser Ala
65              70              75              80
Ser Trp Ile Met Asn Ala Leu His Ser Leu Leu His Thr Leu Leu Met
              85              90              95
Asn Ser Leu Ser Phe Cys Ala Asn His Glu Ile Pro His Phe Leu Cys
              100              105              110
Asp Ile Asn Pro Leu Leu Gly Leu Ser Cys Thr Asp Pro Phe Thr Asn
              115              120              125
Glu Leu Val Ile Phe Ile Thr Gly Gly Leu Thr Gly Leu Ile Cys Val
              130              135              140
Leu Cys Leu Ile Ile Ser Tyr Thr Asn Val Phe Ser Thr Ile Leu Lys
145              150              155              160
Ile Pro Ser Ala Gln Gly Lys Arg Lys Ala Phe Ser Thr Cys Ser Ser
              165              170              175
His Leu Ser Val Val Ser Leu Phe Phe Gly Thr Ser Phe Cys Val Asp
              180              185              190
Phe Ser Ser Pro Ser Thr His Ser Ala Gln Lys Asp Thr Val Ala Ser

```

195 200 205  
Val Met Tyr Thr Val Val Thr Pro  
210 215

&lt;210&gt; 2022

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2921667-1-1-649)

&lt;400&gt; 2022

Val Leu Asp Val Gly Cys Ile Thr Val Thr Val Pro Ala Met Leu Gly  
1 5 10 15  
Arg Leu Leu Ser His Lys Ser Thr Ile Ser Tyr Asp Ala Cys Leu Ser  
20 25 30  
Gln Leu Phe Phe Phe His Leu Leu Ala Gly Met Asp Cys Phe Leu Leu  
35 40 45  
Thr Ala Met Ala Tyr Asp Arg Leu Leu Ala Ile Cys Gln Pro Leu Thr  
50 55 60  
Tyr Ser Thr Arg Met Ser Gln Thr Val Gln Arg Met Leu Val Ala Ala  
65 70 75 80  
Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu Thr His Thr Val Ala Met  
85 90 95  
Ser Thr Leu Asn Phe Cys Gly Pro Asn Glu Val Asn His Phe Tyr Cys  
100 105 110  
Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys Ser Ser Thr Gln Leu Asn  
115 120 125  
Glu Leu Leu Leu Phe Val Ala Ala Phe Met Ala Val Ala Pro Leu  
130 135 140  
Val Phe Ile Ser Val Ser Tyr Ala His Val Val Ala Ala Val Pro Gln  
145 150 155 160  
Ile Arg Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Gly Ser  
165 170 175  
His Leu Thr Val Val Gly Ile Phe Tyr Gly Thr Gly Val Phe Ser Tyr  
180 185 190  
Met Arg Leu Gly Ser Ala Glu Ser Ser Asp Lys Asp Lys Gly Val Gly  
195 200 205  
Val Phe Met Thr Val Ile Asn Pro  
210 215

&lt;210&gt; 2023

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2921686-1-1-646)

&lt;400&gt; 2023

Trp Ala Asp Ile Ala Phe Thr Ser Ala Thr Val Pro Lys Met Ile Val  
1 5 10 15  
Asp Met Gln Ser His Arg Val Ile Ser Tyr Ala Ser Cys Leu Thr Gln  
20 25 30  
Met Ser Phe Phe Ala Leu Phe Ala Cys Ile Glu Asp Leu Leu Leu Ile  
35 40 45  
Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys His Ser Pro His Tyr  
50 55 60  
Pro Val Ile Met Asn Pro Arg Leu Gly Val Phe Phe Val Leu Val Ser  
65 70 75 80  
Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp Thr Val Leu  
85 90 95  
Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser Asn Phe Val Cys Asp  
100 105 110  
Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser Val Ile Asp Ser  
115 120 125

```

Ile Phe Ile Tyr Leu Asp Ser Thr Met Phe Arg Phe Leu Pro Ile Ser
  130          135          140
Gly Ile Leu Leu Ser Tyr Ser Asn Ile Val Pro Ser Ile Leu Arg Ile
145          150          155          160
Ser Ser Ser Asp Gly Lys Ser Lys Ala Phe Ser Thr Cys Arg Ser His
          165          170          175
Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly Val Tyr Leu
          180          185          190
Thr Thr Ala Ala Gly Thr Thr Pro Arg Ser Gly Val Val Ser Val
          195          200          205
Met Tyr Thr Val Val Thr Pro
  210          215

```

&lt;210&gt; 2024

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (2921715-1-1-652)

&lt;400&gt; 2024

```

Ile Ile Asp Ile Ser Tyr Ala Ser Asn Lys Val Pro Lys Met Leu Thr
  1          5          10          15
Asn Leu Gly Leu Asn Lys Arg Lys Thr Ile Ser Phe Val Pro Cys Thr
          20          25          30
Met Gln Thr Phe Leu Tyr Met Ala Phe Ala His Thr Glu Cys Leu Ile
          35          40          45
Leu Val Met Met Ser Tyr Asp Arg Tyr Met Ala Ile Cys His Pro Leu
          50          55          60
Gln Tyr Ser Val Ile Met Arg Trp Gly Val Cys Thr Val Leu Ala Val
65          70          75          80
Thr Ser Trp Ala Cys Gly Ser Leu Leu Ala Leu Val His Val Val Leu
          85          90          95
Ile Leu Arg Leu Pro Phe Cys Gly Pro His Glu Ile Asn His Phe Phe
          100          105          110
Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Leu
          115          120          125
Asn Gln Val Val Ile Phe Ala Ala Ser Val Phe Ile Leu Val Gly Pro
          130          135          140
Leu Cys Leu Val Leu Val Ser Tyr Ser Arg Ile Leu Ala Ala Ile Leu
145          150          155          160
Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser
          165          170          175
Ser His Leu Cys Met Val Gly Leu Phe Phe Gly Ser Ala Ile Val Met
          180          185          190
Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu
          195          200          205
Ser Leu Phe Tyr Ser Leu Phe Asn Pro
  210          215

```

&lt;210&gt; 2025

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3093312-1-33069-35776)

&lt;400&gt; 2025

```

Met Asn Asp Asp Gly Lys Val Asn Ala Ser Ser Glu Gly Tyr Phe Ile
  1          5          10          15
Leu Val Gly Phe Ser Asn Trp Pro His Leu Glu Val Val Ile Phe Val
          20          25          30
Val Val Leu Ile Phe Tyr Leu Met Thr Leu Ile Gly Asn Leu Phe Ile
          35          40          45
Ile Ile Leu Ser Tyr Leu Asp Ser His Leu His Thr Pro Met Tyr Phe

```

50		55		60											
Phe	Leu	Ser	Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Ser
65		70		75											80
Ile	Pro	Gln	Leu	Leu	Val	Asn	Leu	Trp	Gly	Pro	Glu	Lys	Thr	Ile	Ser
		85		90											95
Tyr	Ala	Gly	Cys	Met	Ile	Gln	Leu	Tyr	Phe	Val	Leu	Ala	Leu	Gly	Thr
		100		105											110
Thr	Glu	Cys	Val	Leu	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Ala	Ala
		115		120											125
Val	Cys	Arg	Pro	Leu	His	Tyr	Thr	Val	Leu	Met	His	Pro	Arg	Phe	Cys
		130		135											140
His	Leu	Leu	Ala	Val	Ala	Ser	Trp	Val	Ser	Gly	Phe	Thr	Asn	Ser	Ala
		145		150											160
Leu	His	Ser	Ser	Phe	Thr	Phe	Trp	Val	Pro	Leu	Cys	Gly	His	Arg	Gln
		165		170											175
Val	Asp	His	Phe	Cys	Glu	Val	Pro	Ala	Leu	Leu	Arg	Leu	Ser	Cys	
		180		185											190
Val	Asp	Thr	His	Val	Asn	Glu	Leu	Thr	Leu	Met	Ile	Thr	Ser	Ser	Ile
		195		200											205
Phe	Val	Leu	Ile	Pro	Leu	Ile	Leu	Ile	Leu	Thr	Ser	Tyr	Gly	Ala	Ile
		210		215											220
Val	Arg	Ala	Val	Leu	Arg	Met	Gln	Ser	Thr	Thr	Gly	Leu	Gln	Lys	Val
		225		230											240
Phe	Gly	Thr	Cys	Gly	Ala	His	Leu	Met	Ala	Val	Ser	Leu	Phe	Phe	Ile
		245		250											255
Pro	Ala	Met	Cys	Ile	Tyr	Leu	Gln	Pro	Pro	Ser	Gly	Asn	Ser	Gln	Asp
		260		265											270
Gln	Gly	Lys	Phe	Ile	Ala	Leu	Phe	Tyr	Thr	Val	Val	Thr	Pro	Ser	Leu
		275		280											285
Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Val	Val	Arg	Gly	Ala	Val
		290		295											300
Lys	Arg	Leu	Met	Gly	Trp	Glu									
305				310											

&lt;210&gt; 2026

&lt;211&gt; 330

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3108020-1-23117-23433)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(330)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2026

Met	Glu	Pro	Glu	Asn	Asp	Thr	Arg	Ile	Ser	Glu	Phe	Arg	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Glu	Glu	Pro	Arg	Leu	Gln	Arg	Phe	Arg	Phe	Leu	Phe	Gly	Val
		20						25					30		
Phe	Leu	Ser	Met	Tyr	Leu	Ile	Ile	Val	Phe	Gly	Asn	Leu	Leu	Ile	Ile
		35					40					45			
Leu	Val	Ile	Ile	Leu	Cys	Ser	His	Leu	His	Thr	Ser	Met	Tyr	Phe	Phe
	50				55						60				
Leu	Ser	Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Ala	Ser	Thr	Arg	Val
65				70					75						80
Pro	Lys	Met	Leu	Val	Asn	Ile	Gln	Ala	Gln	Ser	Lys	Val	Ile	Thr	Ser
		85							90						95
Ala	Gly	Cys	Ile	Thr	Gln	Met	Tyr	Phe	Phe	Ile	His	Phe	Val	Gly	Leu
		100					105						110		
Asp	Ser	Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile
		115					120						125		

Cys His Pro Leu Tyr Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Gly  
 130 135 140  
 Leu Leu Val Leu Val Ser Trp Ile Thr Ser Val Leu His Ser Leu Leu  
 145 150 155 160  
 His Ser Leu Met Val Leu Gln Leu Ser Leu Cys Arg Glu Leu Glu Ile  
 165 170 175  
 Pro His Phe Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser  
 180 185 190  
 Asp Thr Phe Leu Asn Asp Met Val Met Tyr Leu Ala Ala Val Leu Leu  
 195 200 205  
 Gly Gly Gly Ser Leu Ala Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Val  
 210 215 220  
 Ser Ser Ile Cys Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe  
 225 230 235 240  
 Ser Thr Cys Pro Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr  
 245 250 255  
 Ser Leu Gly Val Tyr Leu Ser Ser Ala Ala Ser His Asn Ser His Ser  
 260 265 270  
 Gly Ala Ile Ala Ser Val Arg Tyr Thr Val Val Thr Pro Met Leu Asn  
 275 280 285  
 Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys  
 290 295 300  
 Asn Ser Leu Gly Gly Lys Leu Glu Lys Gly Gln Leu Ser Xaa Gly Leu  
 305 310 315 320  
 Lys Leu Tyr Pro Xaa Leu Gln Gly Ser Lys  
 325 330

&lt;210&gt; 2027

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3108020-1-37593-38822)

&lt;400&gt; 2027

Met Glu Arg Gly Asn Gln Thr Glu Val Gly Asn Phe Leu Leu Leu Gly  
 1 5 10 15  
 Phe Ala Glu Asp Ser Asp Met Gln Leu Leu His Gly Leu Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Ile Ile Gly Asn Leu Leu Ile Ile Leu Thr  
 35 40 45  
 Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ala Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Ile Gln Thr Gln Ser Lys Met Ile Thr Phe Ala Gly  
 85 90 95  
 Cys Leu Thr Gln Ile Phe Phe Phe Ile Ala Phe Gly Cys Leu Asp Asn  
 100 105 110  
 Leu Leu Leu Thr Met Thr Ala Tyr Asp Arg Phe Val Ala Ile Cys Tyr  
 115 120 125  
 Pro Leu His Tyr Thr Val Ile Met Asn Pro Arg Leu Cys Gly Leu Leu  
 130 135 140  
 Val Leu Gly Ser Trp Cys Ile Ser Val Met Gly Ser Leu Leu Glu Thr  
 145 150 155 160  
 Leu Thr Ile Leu Arg Leu Ser Phe Cys Thr Asn Met Glu Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Pro Ser Glu Val Leu Lys Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Phe Ile Asn Asn Ile Val Met Tyr Phe Val Thr Ile Val Leu Gly Val  
 195 200 205  
 Phe Pro Leu Cys Gly Ile Leu Phe Ser Tyr Ser Gln Ile Phe Ser Ser  
 210 215 220

Val	Leu	Arg	Val	Ser	Ala	Arg	Gly	Gln	His	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly	Leu	Gly
				245					250					255	
Val	Tyr	Leu	Ser	Ser	Ala	Val	Thr	Pro	Pro	Ser	Arg	Thr	Ser	Leu	Ala
			260					265					270		
Ala	Ser	Val	Met	Tyr	Thr	Met	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ser	Leu	Gly	Arg	Leu	Leu
290					295						300				
Leu	Arg	Ala	Thr	Ser	Leu	Lys	Glu	Gly	Thr	Ile	Ala	Lys	Leu	Ser	
305					310					315					

&lt;210&gt; 2028

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3184261-1-5713-7336)

&lt;400&gt; 2028

Met	Glu	Pro	Glu	Lys	Gln	Thr	Glu	Ile	Ser	Glu	Phe	Phe	Leu	Gln	Gly
1				5					10					15	
Leu	Ser	Glu	Lys	Pro	Glu	His	Gln	Thr	Leu	Leu	Phe	Thr	Met	Phe	Leu
			20					25					30		
Ser	Thr	Tyr	Leu	Val	Thr	Ile	Ile	Gly	Asn	Ala	Leu	Ile	Ile	Leu	Ala
		35				40						45			
Ile	Ile	Thr	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50				55						60				
Asn	Leu	Ser	Leu	Val	Asp	Thr	Leu	Leu	Ser	Ser	Thr	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Ala	Asn	Ile	Gln	Ala	Gln	Ser	Arg	Ala	Ile	Pro	Phe	Val	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Met	Tyr	Ala	Phe	His	Leu	Phe	Gly	Thr	Met	Asp	Ser
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Ile	Asp	Arg	Phe	Val	Ala	Ile	Val	His
			115				120					125			
Pro	Gln	Arg	Tyr	Leu	Val	Leu	Met	Cys	Ser	Pro	Val	Cys	Gly	Leu	Leu
						135					140				
Leu	Gly	Ala	Ser	Trp	Met	Ile	Thr	Asn	Leu	Gln	Ser	Leu	Ile	His	Thr
145					150					155					160
Cys	Leu	Met	Ala	Gln	Leu	Thr	Phe	Cys	Ala	Gly	Ser	Glu	Ile	Ser	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Met	Pro	Leu	Leu	Lys	Leu	Ser	Gly	Ser	Asp	Thr
			180					185					190		
His	Thr	Asn	Glu	Leu	Val	Ile	Phe	Ala	Phe	Gly	Ile	Val	Val	Gly	Thr
		195					200					205			
Ser	Pro	Phe	Ser	Cys	Ile	Leu	Leu	Ser	Tyr	Ile	Arg	Ile	Phe	Trp	Thr
		210				215					220				
Val	Phe	Lys	Ile	Pro	Ser	Thr	Arg	Gly	Lys	Trp	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Leu	His	Leu	Thr	Val	Val	Ser	Leu	Ser	Tyr	Gly	Thr	Ile	Phe
				245					250					255	
Ala	Val	Tyr	Leu	Gln	Pro	Thr	Ser	Pro	Ser	Ser	Ser	Gln	Lys	Asp	Lys
			260					265					270		
Ala	Ala	Ala	Leu	Met	Cys	Gly	Val	Phe	Ile	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Ile	Arg	Asn	Lys	Asp	Met	Lys	Ala	Ala	Leu	Gly	Lys	Leu
	290					295					300				
Ile	Gly	Lys	Val	Ala	Val	Pro	Cys	Pro	Arg	Pro					
305					310					315					

&lt;210&gt; 2029

<211> 318  
 <212> PRT  
 <213> Homo sapien (3213020-1-101040-103030)

<400> 2029  
 Met Trp Gln Lys Asn Gln Thr Ser Leu Ala Asp Phe Ile Leu Glu Gly  
   1                  5                  10                  15  
 Leu Phe Asp Asp Ser Leu Thr His Leu Phe Leu Phe Ser Leu Thr Met  
                   20                  25                  30  
 Val Val Phe Leu Ile Ala Val Ser Gly Asn Thr Leu Thr Ile Leu Leu  
                   35                  40                  45  
 Ile Cys Ile Asp Pro Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser  
   50                  55                  60  
 Gln Leu Ser Leu Met Asp Leu Met His Val Ser Thr Thr Ile Leu Lys  
  65                  70                  75                  80  
 Met Ala Thr Asn Tyr Leu Ser Gly Lys Lys Ser Ile Ser Phe Val Gly  
                   85                  90                  95  
 Cys Ala Thr Gln His Phe Leu Tyr Leu Cys Leu Gly Gly Ala Glu Cys  
                  100                 105                 110  
 Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His  
  115                 120                 125  
 Pro Leu Arg Tyr Ala Val Leu Met Asn Lys Lys Val Gly Leu Met Met  
  130                 135                 140  
 Ala Val Met Ser Trp Leu Gly Ala Ser Val Asn Ser Leu Ile His Met  
  145                 150                 155                 160  
 Ala Ile Leu Met His Phe Pro Phe Cys Gly Pro Arg Lys Val Tyr His  
                  165                 170                 175  
 Phe Tyr Cys Glu Phe Pro Ala Val Val Lys Leu Val Cys Gly Asp Ile  
                  180                 185                 190  
 Thr Val Tyr Glu Thr Thr Val Tyr Ile Ser Ser Ile Leu Leu Leu Leu  
  195                 200                 205  
 Pro Ile Phe Leu Ile Ser Thr Ser Tyr Val Phe Ile Leu Gln Ser Val  
  210                 215                 220  
 Ile Gln Met Arg Ser Ser Gly Ser Lys Arg Asn Ala Phe Ala Thr Cys  
  225                 230                 235                 240  
 Gly Ser His Leu Thr Val Val Ser Leu Trp Phe Gly Ala Cys Ile Phe  
                  245                 250                 255  
 Ser Tyr Met Arg Pro Arg Ser Gln Cys Thr Leu Leu Gln Asn Lys Val  
                  260                 265                 270  
 Gly Ser Val Phe Tyr Ser Ile Ile Thr Pro Thr Leu Asn Ser Leu Ile  
                  275                 280                 285  
 Tyr Thr Leu Arg Asn Lys Asp Val Ala Lys Ala Leu Arg Arg Val Leu  
  290                 295                 300  
 Arg Arg Asp Val Ile Thr Gln Cys Ile Gln Arg Leu Gln Leu  
  305                 310                 315

<210> 2030  
 <211> 114  
 <212> PRT  
 <213> Homo sapien (32504-1-1-343)

<400> 2030  
 Val Cys His Pro Leu His Tyr Met Ile Ile Met Asn Pro His Leu Cys  
   1                  5                  10                  15  
 Gly Leu Leu Val Phe Val Thr Trp Leu Ile Gly Val Met Thr Ser Leu  
                   20                  25                  30  
 Leu His Ile Ser Leu Met Met His Leu Ile Phe Cys Lys Asp Phe Glu  
                   35                  40                  45  
 Ile Pro His Phe Phe Cys Glu Leu Thr Tyr Ile Leu Gln Leu Ala Cys  
   50                  55                  60  
 Ser Asp Thr Phe Leu Asn Ser Thr Leu Ile Tyr Phe Met Thr Gly Val

65                      70                      75                      80  
 Leu Gly Val Phe Pro Leu Leu Gly Ile Ile Phe Ser Tyr Ser Arg Ile  
                                  85                      90                      95  
 Ala Ser Ser Ile Arg Lys Met Ser Ser Ser Gly Gly Lys Gln Lys Ala  
                                  100                      105                      110  
 Leu Ser

<210> 2031  
 <211> 114  
 <212> PRT  
 <213> Homo sapien (32508-1-1-343)

<400> 2031  
 Ile Val Ser Pro Leu Leu Tyr Thr Val Ala Met Ser Asp Arg Lys Cys  
 1                      5                      10                      15  
 Val Glu Leu Val Thr Gly Ser Trp Ile Gly Gly Ile Val Asn Thr Leu  
                                  20                      25                      30  
 Ile His Thr Ile Ser Leu Arg Arg Leu Ser Phe Cys Arg Leu Asn Ala  
                                  35                      40                      45  
 Val Ser His Phe Phe Cys Asp Ile Pro Ser Leu Leu Lys Leu Ser Cys  
                                  50                      55                      60  
 Ser Asp Thr Ser Met Asn Glu Leu Leu Leu Leu Thr Phe Ser Gly Val  
 65                      70                      75                      80  
 Ile Ala Met Ala Thr Phe Leu Thr Val Ile Ile Ser Tyr Ile Phe Ile  
                                  85                      90                      95  
 Ala Phe Ala Ser Leu Arg Ile His Ser Ala Ser Gly Arg Gln Gln Ala  
                                  100                      105                      110  
 Phe Ser

<210> 2032  
 <211> 112  
 <212> PRT  
 <213> Homo sapien (32509-1-1-338)

<400> 2032  
 Ile Cys His Pro Leu Arg Tyr Thr Thr Ile Met Lys Glu Gly Leu Cys  
 1                      5                      10                      15  
 Asn Leu Leu Val Thr Val Ser Trp Ile Leu Ser Cys Thr Asn Ala Leu  
                                  20                      25                      30  
 Ser His Thr Leu Leu Leu Ala Gln Leu Ser Phe Cys Ala Asp Asn Thr  
                                  35                      40                      45  
 Ile Pro His Phe Phe Cys Asp Leu Val Ala Leu Leu Lys Leu Ser Cys  
                                  50                      55                      60  
 Ser Asp Ile Ser Leu Asn Glu Leu Val Ile Phe Thr Val Gly Gln Ala  
 65                      70                      75                      80  
 Val Ile Thr Leu Pro Leu Ile Cys Ile Leu Ile Ser Tyr Gly His Ile  
                                  85                      90                      95  
 Gly Val Thr Ile Leu Lys Ala Pro Ser Thr Lys Gly Ile Phe Lys Ala  
                                  100                      105                      110

<210> 2033  
 <211> 114  
 <212> PRT  
 <213> Homo sapien (32513-1-1-343)

<400> 2033  
 Ile Cys Tyr Pro Leu Arg Tyr Thr Ala Ile Met Asn Pro Arg Ile Cys  
 1                      5                      10                      15  
 Val Ala Leu Ala Val Gly Thr Trp Leu Leu Gly Cys Ile His Ser Ser



```

      20      25      30
Ile Leu Thr Ser Leu Thr Phe Thr Leu Pro Tyr Cys Gly Pro Asn Glu
      35      40      45
Val Asp His Phe Phe Cys Asp Ile Pro Ala Leu Leu Pro Leu Ala Cys
      50      55      60
Ala Asp Thr Ser Leu Ala Gln Arg Val Ser Phe Thr Ser Val Gly Leu
      65      70      75      80
Ile Ser Leu Val Cys Phe Leu Leu Ile Leu Leu Ser Tyr Thr Arg Ile
      85      90      95
Thr Ile Ser Ile Leu Ser Ile Arg Thr Thr Glu Gly Arg Arg Arg Ala
      100      105      110
Phe Ser

```

&lt;210&gt; 2034

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (32518-1-1-343)

&lt;400&gt; 2034

```

Ile Cys Lys Pro Leu Leu Tyr Pro Ala Ile Met Thr Asn Gly Leu Cys
1      5      10      15
Ile Arg Leu Leu Ile Leu Ser Tyr Val Gly Gly Leu Leu His Ala Leu
      20      25      30
Ile His Glu Gly Phe Leu Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile
      35      40      45
Val His His Ile Tyr Cys Asp Ile Ile Pro Leu Ser Lys Ile Ser Cys
      50      55      60
Thr Asp Ser Ser Ile Asn Phe Leu Met Val Phe Ile Phe Ser Gly Ser
      65      70      75      80
Ile Gln Val Phe Ser Ile Val Thr Ile Leu Val Ser Tyr Thr Phe Val
      85      90      95
Leu Phe Ala Ile Leu Lys Arg Lys Ser Asp Lys Gly Val Arg Lys Ala
      100      105      110
Phe Ser

```

&lt;210&gt; 2035

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3289998-1-93404-94343)

&lt;400&gt; 2035

```

Met Val Leu Trp Leu Ser Phe Cys Thr Asp Leu Glu Ile Pro His Phe
1      5      10      15
Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser Asp Thr Phe
      20      25      30
Leu Asn Asp Met Gly Met Tyr Phe Ala Ala Gly Leu Leu Ala Gly Gly
      35      40      45
Pro Leu Val Gly Ile Leu Cys Ser Tyr Ser Lys Ile Val Ser Ser Ile
      50      55      60
Arg Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys
      65      70      75      80
Ala Ser His Leu Ser Val Val Ser Leu Phe Cys Cys Thr Gly Leu Gly
      85      90      95
Val Tyr Leu Thr Ser Ala Ala Thr His Asn Ser His Thr Ser Ala Thr
      100      105      110
Ala Ser Val Met Tyr Thr Val Ala Thr Pro Met Leu Asn Pro Phe Ile
      115      120      125
Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys Met Ser Phe
      130      135      140

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Arg Gly Lys Gln  
145

<210> 2036

<211> 312

<212> PRT

<213> Homo sapien (3402736-1-7079-10933)

<400> 2036

```

Met Ser Ala Asn Thr Ser Met Val Thr Glu Phe Leu Leu Leu Gly Phe
 1          5          10          15
Ser His Leu Ala Asp Leu Gln Gly Leu Leu Phe Ser Val Phe Leu Thr
      20          25          30
Ile Tyr Leu Leu Thr Val Ala Gly Asn Phe Leu Ile Val Val Leu Val
      35          40          45
Ser Thr Asp Ala Ala Leu Gln Ser Pro Met Tyr Phe Phe Leu Arg Thr
      50          55          60
Leu Ser Ala Leu Glu Ile Gly Tyr Thr Ser Val Thr Val Pro Leu Leu
      65          70          75          80
Leu His His Leu Leu Thr Gly Arg Arg His Ile Ser Arg Ser Gly Cys
      85          90          95
Ala Leu Gln Met Phe Phe Phe Leu Phe Phe Gly Ala Thr Glu Cys Cys
      100          105          110
Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Glu Pro
      115          120          125
Leu Arg Tyr Pro Leu Leu Leu Ser His Arg Val Cys Leu Gln Leu Ala
      130          135          140
Gly Ser Ala Trp Ala Cys Gly Val Leu Val Gly Leu Gly His Thr Pro
      145          150          155          160
Phe Ile Phe Ser Leu Pro Phe Cys Gly Pro Asn Thr Ile Pro Gln Phe
      165          170          175
Phe Cys Glu Ile Gln Pro Val Leu Gln Leu Val Cys Gly Asp Thr Ser
      180          185          190
Leu Asn Glu Leu Gln Ile Ile Leu Ala Thr Ala Leu Leu Ile Leu Cys
      195          200          205
Pro Phe Gly Leu Ile Leu Gly Ser Tyr Gly Arg Ile Leu Val Thr Ile
      210          215          220
Phe Arg Ile Pro Ser Val Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys
      225          230          235          240
Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Leu Phe
      245          250          255
Ile Tyr Ile Arg Pro Lys Ala Ser Tyr Asp Pro Ala Thr Asp Pro Leu
      260          265          270
Val Ser Leu Phe Tyr Ala Val Val Thr Pro Ile Leu Asn Pro Ile Ile
      275          280          285
Tyr Ser Leu Arg Asn Thr Glu Val Lys Ala Ala Leu Lys Arg Thr Ile
      290          295          300
Gln Lys Thr Val Pro Met Glu Ile
305          310

```

<210> 2037

<211> 305

<212> PRT

<213> Homo sapien (3522966-1-8581-12533)

<400> 2037

```

Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Gly Leu
 1          5          10          15
Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val
      20          25          30
Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu

```

35	40	45
His Ser Pro Met Tyr Phe	Leu Leu Ala Asn Leu Ser	Leu Ile Asp Leu
50	55	60
Ser Leu Ser Ser Val Thr	Ala Pro Lys Met Ile Thr	Asp Phe Phe Ser
65	70	75
Gln Arg Lys Val Ile Ser	Phe Lys Gly Cys Leu Val	Gln Ile Phe Leu
85	90	95
Leu His Phe Phe Gly Gly	Ser Glu Met Val Ile Leu	Ile Ala Met Gly
100	105	110
Phe Asp Arg Tyr Ile Ala	Ile Cys Lys Pro Leu His	Tyr Thr Thr Ile
115	120	125
Met Cys Gly Asn Ala Cys	Val Gly Ile Met Ala Val	Ala Trp Gly Ile
130	135	140
Gly Phe Leu His Ser Val	Ser Gln Leu Ala Phe Ala	Val His Leu Pro
145	150	155
Phe Cys Gly Pro Asn Glu	Val Asp Ser Phe Tyr Cys	Asp Leu Pro Arg
165	170	175
Val Ile Lys Leu Ala Cys	Thr Asp Thr Tyr Arg Leu	Asp Ile Met Val
180	185	190
Ile Ala Asn Ser Gly Val	Leu Thr Val Cys Ser Phe	Val Leu Leu Ile
195	200	205
Ile Ser Tyr Thr Ile Ile	Leu Met Thr Ile Gln His	Arg Pro Leu Asp
210	215	220
Lys Ser Ser Lys Ala Leu	Ser Thr Leu Thr Ala His	Ile Thr Val Val
225	230	235
Leu Leu Phe Phe Gly Pro	Cys Val Phe Ile Tyr Ala	Trp Pro Phe Pro
245	250	255
Ile Lys Ser Leu Asp Lys	Phe Leu Ala Val Phe Tyr	Ser Val Ile Thr
260	265	270
Pro Leu Leu Asn Pro Ile	Ile Tyr Thr Leu Arg Asn	Lys Asp Met Lys
275	280	285
Thr Ala Ile Arg Gln Leu	Arg Lys Trp Asp Ala His	Ser Ser Val Lys
290	295	300
Phe		
305		

&lt;210&gt; 2038

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3738097-1-24383-25939)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(142)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2038

Tyr Ile Glu Met Asp Asn Tyr	Phe Leu Thr Xaa Leu Xaa	Arg Tyr Leu
1	5	10
Leu Phe Phe His Phe Ile	Ile Ser Thr Gln Tyr Phe Gly	Ile Lys Lys
20	25	30
Phe Ile Leu Thr Ser Leu	Leu Ala Tyr Cys Phe Trp Met	Phe Ser Ile
35	40	45
Thr Lys Phe Leu Thr Tyr	Gly Leu Lys Trp Leu Leu	Ile Pro Asp Cys
50	55	60
Xaa Ser Trp Tyr Gln His	Ala Xaa Phe Asn Pro Xaa	Gln Ile Leu Phe
65	70	75
Leu Gln Asn Ser Xaa Ser	Trp Leu Glu Val Tyr Phe Tyr	Leu Phe Leu
85	90	95
Leu Phe Ala Val Pro Phe	Asp Lys Ile Ile Phe Leu	Ser Xaa Lys Met
100	105	110

Tyr Leu Asn Lys Xaa Ile Ile Ser Val Leu Val Gly Thr Arg Trp Thr  
 115 120 125  
 Phe Gln Arg Cys Val His Thr Leu Cys Ile Leu Ser Leu Phe  
 130 135 140

<210> 2039  
 <211> 297  
 <212> PRT  
 <213> Homo sapien (3738097-1-94180-96164)

<220>  
 <221> VARIANT  
 <222> (1)...(297)  
 <223> Xaa = Any Amino Acid

<400> 2039  
 Met Lys Xaa Met Ala Val Glu Asn Asn Ser Ser Val Thr Glu Phe Ile  
 1 5 10 15  
 Leu Val Arg Leu Thr Asn Ser Arg Cys Pro Ser Val Leu Phe Leu Met  
 20 25 30  
 Trp Ser Leu Trp Gly Glu Phe Glu His Asn Phe Met Ser Leu Asn Ser  
 35 40 45  
 His Leu His Thr Pro Thr His Phe Phe Leu Phe Thr Leu Ser Phe Ile  
 50 55 60  
 Asp Val Cys Tyr Ser Phe Val Cys Thr Thr Lys Ile Pro Met Gly Phe  
 65 70 75 80  
 Ile Ser Glu Arg Asn Ile Ile Ser Phe Val Gly Trp Pro Thr Xaa Leu  
 85 90 95  
 Tyr Phe Phe Cys Ile Phe Val Lys Glu Pro Lys Asn Gly Val Ile Val  
 100 105 110  
 Gly Ile Met Phe Ser Ala Lys Met Leu Val Cys Arg Glu Ile Met Asp  
 115 120 125  
 Xaa Ser Leu Met Xaa Asn Xaa Lys Met His Met Ala Leu Glu Arg Ser  
 130 135 140  
 Asp Phe Arg Met Gly Xaa Thr Gly Ser Ala Thr Lys Lys His Leu Ile  
 145 150 155 160  
 Ile Phe Leu Tyr Tyr Ser Asp Tyr Phe Gln Arg Xaa Xaa Gly Cys Arg  
 165 170 175  
 Ala Leu Gly Gln Gly Ser Leu Ala Lys Gln Asp Thr Xaa Leu Xaa Asn  
 180 185 190  
 Cys Thr Cys Thr Leu Lys Ser Leu Leu His Ile Ile Ile Cys Phe Tyr  
 195 200 205  
 Ile Trp Lys Gln Lys Lys Ile Ser Tyr Leu Tyr His Lys Ser Xaa Lys  
 210 215 220  
 Met Asp Leu Tyr Lys Ile Cys His Val Leu Trp Val Thr His Lys Lys  
 225 230 235 240  
 Asn Phe Leu Arg Pro Ser Ser Thr Ser Gln Met Val Gln Gly Lys Met  
 245 250 255  
 Leu Leu Lys Gly Tyr Ile Xaa Phe Trp Arg Met Ser Leu Pro Met Cys  
 260 265 270  
 Ala Ile Phe Ile Phe Val Arg Arg Tyr Tyr Tyr Leu Leu Lys Lys Leu  
 275 280 285  
 Lys Thr Leu Leu Tyr Lys Asn Ser Tyr  
 290 295

<210> 2040  
 <211> 325  
 <212> PRT  
 <213> Homo sapien (3746441-1-1-1386)  
 <220>

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(325)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2040

```

Met Ala Asn Glu Asn Tyr Thr Lys Val Thr Xaa Phe Ile Phe Thr Gly
 1          5          10          15
Leu Asn Tyr Asn Pro Gln Leu Arg Val Phe Leu Phe Leu Phe Leu
 20          25          30
Thr Thr Phe Tyr Val Ile Asn Val Thr Gly Asn Leu Gly Met Ile Val
 35          40          45
Leu Ile Arg Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu
 50          55          60
Ser His Leu Ser Phe Val Asp Thr Cys Phe Ser Ser Val Val Ser Pro
 65          70          75          80
Lys Met Leu Thr Asp Phe Phe Val Lys Arg Lys Ala Ile Ser Phe Leu
 85          90          95
Gly Cys Ala Leu Gln Gln Trp Phe Phe Gly Phe Phe Val Ala Ala Asp
 100          105          110
Cys Phe Leu Leu Glu Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys
 115          120          125
Asn Pro Leu Leu Tyr Ser Val Ala Met Ser Gln Arg Leu Cys Ile Gln
 130          135          140
Leu Val Val Gly Pro Tyr Val Ile Gly Leu Met Asn Thr Met Thr His
 145          150          155          160
Thr Thr Asn Ala Phe Cys Leu Pro Phe Cys Gly Pro Asn Val Ile Asn
 165          170          175
Pro Phe Phe Cys Asp Met Ser Pro Leu Leu Ser Leu Val Cys Ala Asp
 180          185          190
Thr Arg Leu Asn Lys Leu Ala Val Phe Ile Val Ala Gly Ala Val Gly
 195          200          205
Val Phe Ser Gly Leu Thr Ile Leu Ile Ser Tyr Ile Tyr Ile Leu Met
 210          215          220
Ala Ile Leu Arg Ile Arg Ser Ala Asp Gly Arg Cys Lys Thr Phe Ser
 225          230          235          240
Thr Cys Ser Ser His Leu Thr Ala Val Phe Ile Leu Tyr Gly Thr Leu
 245          250          255
Phe Phe Ile Tyr Val His Pro Ser Ala Thr Phe Ser Leu Asp Leu Asn
 260          265          270
Lys Val Val Ser Val Phe Tyr Thr Ala Val Ile Pro Met Leu Asn Pro
 275          280          285
Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Ile His Arg
 290          295          300
Thr Val Thr Gln Arg Lys Phe Cys Lys Ala Xaa Ile Leu Ile Gln Lys
 305          310          315          320
Glu Leu Gly Arg Lys
          325

```

&lt;210&gt; 2041

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3766130-1-61888-64085)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(328)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2041

```

Met Gly Gln Glu Asn Lys Asn Gln Thr Trp Val Ser Glu Phe Ile Leu
 1          5          10          15

```

Leu Gly Ile Ser Ser Asp Trp Gly Ile Gln Val Ser Leu Phe Ala Leu  
                   20                  25                  30  
 Ile Leu Ala Met Tyr Leu Val Thr Ile Leu Gly Asn Thr Leu Ile Leu  
                   35                  40                  45  
 Leu Leu Ile Arg Leu Asp Asn Arg Leu His Thr Pro Met Tyr Phe Ser  
                   50                  55                  60  
 Leu Ser Val Leu Ser Phe Val Asp Phe Cys Tyr Thr Lys Ser Ile Val  
                   65                  70                  75                  80  
 Pro Gln Met Leu Ser His Leu Leu Ser Ala Arg Lys Ser Ile Pro Phe  
                   85                  90                  95  
 Tyr Ser Cys Val Leu Gln Leu Tyr Val Ser Leu Ala Leu Cys Gly Ser  
                   100                  105                  110  
 Glu Phe Phe Leu Leu Gly Ala Met Ala Tyr Asp Arg Tyr Val Ala Val  
                   115                  120                  125  
 Cys His Pro Leu His Tyr Thr Val Ile Met His Gly Gly Leu Cys Leu  
                   130                  135                  140  
 Gly Leu Ala Ala Ser Arg Leu Val Ala Gly Phe Ser Asn Ser Leu Met  
                   145                  150                  155                  160  
 Glu Thr Ile Ile Thr Phe Gln Leu Pro Val Ser Arg Phe Ile Asn His  
                   165                  170                  175  
 Phe Val Cys Glu Thr Leu Ala Val Leu Gln Leu Ala Cys Val Asp Val  
                   180                  185                  190  
 Pro Phe Asn Lys Val Met Val Ala Ile Ser Gly Phe Leu Val Ile Leu  
                   195                  200                  205  
 Leu Pro Cys Ser Leu Val Leu Phe Ser Tyr Ala Cys Ile Val Ala Thr  
                   210                  215                  220  
 Ile Leu Cys Ile Arg Ser Thr Gln Val Arg Cys Lys Ala Phe Gly Thr  
                   225                  230                  235                  240  
 Cys Ala Ser His Leu Ile Val Val Cys Met Cys Phe Gly Ala Thr Ile  
                   245                  250                  255  
 Cys Thr Tyr Leu Gly Pro Gln Leu Ala Ser Ser Ala Glu Glu Glu Lys  
                   260                  265                  270  
 Met Ile Ala Leu Phe Tyr Gly Val Val Ser Pro Met Leu Asn Pro Leu  
                   275                  280                  285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Ala Ala Val Arg Lys Val  
                   290                  295                  300  
 Leu Glu Arg Cys Arg Xaa Arg Val Lys Thr Leu Arg Thr Ser Cys Tyr  
                   305                  310                  315                  320  
 Leu Ser Ser Lys Pro Lys Arg Arg  
                   325

&lt;210&gt; 2042

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3766130-1-85703-88675)

&lt;400&gt; 2042

Met Glu Leu Glu Asn Gln Thr Arg Val Thr Lys Phe Ile Leu Val Gly  
   1                  5                  10                  15  
 Phe Pro Gly Ser Leu Ser Met Arg Ala Ala Met Phe Leu Ile Phe Leu  
                   20                  25                  30  
 Val Ala Tyr Ile Leu Thr Val Ala Glu Asn Val Ile Ile Leu Leu  
                   35                  40                  45  
 Val Leu Gln Asn Arg Pro Leu His Lys Pro Met Tyr Phe Phe Leu Ala  
                   50                  55                  60  
 Asn Leu Ser Phe Leu Glu Thr Trp Tyr Ile Ser Val Thr Val Pro Lys  
                   65                  70                  75                  80  
 Leu Leu Phe Ser Phe Trp Ser Val Asn Asn Ser Ile Ser Phe Thr Leu  
                   85                  90                  95  
 Cys Met Ile Gln Leu Tyr Phe Phe Ile Ala Leu Met Cys Thr Glu Cys  
                   100                  105                  110

Val Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg  
 115 120 125  
 Pro Leu His Tyr Pro Thr Ile Met Ser His Gly Leu Cys Phe Arg Leu  
 130 135 140  
 Ala Leu Gly Ser Trp Ala Ile Gly Phe Gly Ile Ser Leu Ala Lys Ile  
 145 150 155 160  
 Tyr Phe Ile Ser Cys Leu Ser Phe Cys Gly Pro Asn Val Ile Asn His  
 165 170 175  
 Phe Phe Cys Asp Ile Ser Pro Val Leu Asn Leu Ser Cys Thr Asp Met  
 180 185 190  
 Ser Ile Thr Glu Leu Val Asp Phe Ile Leu Ala Leu Val Ile Phe Leu  
 195 200 205  
 Phe Pro Leu Phe Ile Thr Val Leu Ser Tyr Gly Cys Ile Leu Ala Thr  
 210 215 220  
 Ile Leu Cys Met Pro Thr Gly Lys Gln Lys Ala Phe Ser Thr Cys Ala  
 225 230 235 240  
 Ser His Leu Val Val Val Thr Ile Phe Tyr Ser Ala Ile Ile Phe Met  
 245 250 255  
 Tyr Ala Arg Pro Arg Val Ile His Ala Phe Asn Met Asn Lys Ile Ile  
 260 265 270  
 Ser Ile Phe Tyr Ala Ile Val Thr Pro Ser Leu Asn Pro Phe Ile Tyr  
 275 280 285  
 Cys Leu Arg Asn Arg Glu Val Lys Glu Ala Leu Lys Lys Leu Ala Tyr  
 290 295 300  
 Cys Gln Ala Ser Arg Ser Asp  
 305 310

&lt;210&gt; 2043

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3831602-1-1-649)

&lt;400&gt; 2043

Phe Val Asp Val Cys Asn Ser Thr Thr Ile Thr Pro Lys Met Leu Ala  
 1 5 10 15  
 Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly Cys Phe Leu  
 20 25 30  
 Gln Met Tyr Phe Phe Ile Ser Leu Ala Thr Thr Glu Cys Ile Leu Phe  
 35 40 45  
 Gly Leu Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Arg Pro Leu Leu  
 50 55 60  
 Tyr Ser Leu Ile Met Ser Arg Thr Val Tyr Leu Lys Met Ala Ala Gly  
 65 70 75 80  
 Ala Phe Ala Ala Gly Leu Leu Asn Phe Met Val Asn Thr Ser His Val  
 85 90 95  
 Ser Ser Leu Ser Phe Cys Asp Ser Asn Val Ile His His Phe Phe Cys  
 100 105 110  
 Asp Ser Pro Pro Leu Phe Lys Leu Ser Cys Ser Asp Thr Ile Leu Lys  
 115 120 125  
 Glu Ser Ile Ser Ser Ile Leu Ala Gly Val Asn Ile Val Gly Thr Leu  
 130 135 140  
 Leu Val Ile Leu Ser Ser Tyr Ser Tyr Val Leu Phe Ser Ile Phe Ser  
 145 150 155 160  
 Met His Ser Gly Glu Gly Arg His Arg Ala Phe Ser Thr Cys Ala Ser  
 165 170 175  
 His Leu Thr Ala Ile Ile Leu Phe Tyr Ala Thr Cys Ile Tyr Thr Tyr  
 180 185 190  
 Leu Arg Pro Ser Ser Ser Tyr Ser Leu Asn Gln Asp Lys Val Ala Ser  
 195 200 205  
 Val Phe Tyr Thr Val Val Ile Pro  
 210 215

<210> 2044  
 <211> 217  
 <212> PRT  
 <213> Homo sapien (3831605-1-1-652)

<220>  
 <221> VARIANT  
 <222> (1)...(217)  
 <223> Xaa = Any Amino Acid

<400> 2044  
 Leu Pro Asp Ile Gly Phe Thr Ser Ala Thr Val Pro Lys Met Ile Glu  
 1 5 10 15  
 Glu Met Gln Ser His Ser Arg Val Ile Tyr His Gly Asp Cys Leu Thr  
 20 25 30  
 Gln Met Ser Phe Phe Val Leu Phe Ala Cys Lys Asp Asp Met Ile Leu  
 35 40 45  
 Thr Val Met Ala Tyr Asp Trp Phe Val Ala Ile Cys His Pro Leu Asn  
 50 55 60  
 Tyr Pro Gly Ile Met Asn Pro His Leu Cys Val Leu Leu Val Leu Val  
 65 70 75 80  
 Pro Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Val  
 85 90 95  
 Leu Gln Phe Ile Cys Phe Lys Asn Val Glu Ile Ser Asn Phe Phe Cys  
 100 105 110  
 Asp Pro Phe Gln Arg Leu Asn Leu Ala Cys Ser Asp Ser Asp Ile Asn  
 115 120 125  
 Asn Ile Tyr Ile Tyr Leu Asp Ser Thr Ile Phe Gly Phe Leu Arg Ile  
 130 135 140  
 Ser Gly Ile Leu Leu Cys Tyr Tyr Thr Val Val Phe Pro Ile Leu Arg  
 145 150 155 160  
 Ile Pro Ser Ser Asp Gly Asn Tyr Lys Ala Phe Ser Thr Xaa Gly Ser  
 165 170 175  
 Arg Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly Val Tyr  
 180 185 190  
 Leu Thr Ser Ala Val Ser Ser Ser Pro Arg Asn Asp Val Val Ala Ser  
 195 200 205  
 Val Met Tyr Ala Val Val Val Thr Pro  
 210 215

<210> 2045  
 <211> 214  
 <212> PRT  
 <213> Homo sapien (3831606-1-1-644)

<400> 2045  
 Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val  
 1 5 10 15  
 Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Thr Gly Cys Leu Thr  
 20 25 30  
 Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn Leu Asn Leu  
 35 40 45  
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His  
 50 55 60  
 Tyr Val Thr Ala Met Ile Pro Gly Leu Cys Ile Leu Leu Leu Ser Leu  
 65 70 75 80  
 Cys Trp Val Phe Ser Ala Leu Tyr Gly Leu Ile His Ile Leu Leu Met  
 85 90 95  
 Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr Leu Phe Cys  
 100 105 110



Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile His Val Asn  
           115                          120                          125  
 His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu Ile Pro Leu  
           130                          135                          140  
 Gly Phe Met Ile Thr Ser Asn Ala Arg Ile Val Arg Ala Ile Leu Gln  
           145                          150                          155                          160  
 Ile Pro Ser Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser  
                           165                          170                          175  
 His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Leu Gly Met Val Tyr  
                           180                          185                          190  
 Leu Gln Pro Leu Gln Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val  
                           195                          200                          205  
 Met His Ala Val Val Thr  
           210

&lt;210&gt; 2046

&lt;211&gt; 278

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3831610-1-1-984)

&lt;400&gt; 2046

Met Ala Ile Arg Asn His Ser Thr Leu His Lys Pro Met Tyr Phe Phe  
   1                          5                          10                          15  
 Leu Ala Asn Met Ser Phe Leu Glu Ile Trp Tyr Val Thr Val Thr Ile  
           20                          25                          30  
 Pro Lys Met Leu Ala Gly Phe Val Gly Ser Lys Gln Asp His Gly Gln  
           35                          40                          45  
 Leu Ile Ser Phe Glu Gly Cys Met Thr Gln Leu Tyr Phe Phe Leu Gly  
           50                          55                          60  
 Leu Gly Cys Thr Glu Cys Val Leu Leu Ala Val Met Ala Asn Asp Arg  
   65                          70                          75                          80  
 Tyr Met Ala Ile Cys Tyr Leu Leu His Asn Pro Val Ile Val Ser Gly  
                           85                          90                          95  
 Arg Leu Cys Val Gln Met Ala Ala Gly Ser Trp Ala Gly Gly Phe Gly  
           100                          105                          110  
 Ile Ser Met Val Lys Val Phe Leu Ile Ser Gly Leu Ser Asn Gly Gly  
           115                          120                          125  
 Pro Asn Ile Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu Leu Asn  
           130                          135                          140  
 Leu Ser Cys Thr Asp Met Ser Thr Ala Glu Leu Thr Asp Phe Ile Leu  
   145                          150                          155                          160  
 Ala Ile Phe Ile Leu Leu Gly Pro Leu Ser Val Thr Gly Ala Ser Tyr  
                           165                          170                          175  
 Val Ala Ile Thr Gly Ala Val Met His Ile Pro Ser Ala Ala Gly Arg  
                           180                          185                          190  
 Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Phe Asn Val Val Ile Ile  
           195                          200                          205  
 Phe Tyr Ala Ala Ser Ile Phe Ile Tyr Ala Arg Pro Lys Ala Leu Ser  
           210                          215                          220  
 Ala Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile Val  
   225                          230                          235                          240  
 Pro Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Glu Val Lys  
                           245                          250                          255  
 Arg Ala Leu Cys Cys Ile Leu His Leu Tyr Gln His Gln Asp Pro Asp  
           260                          265                          270  
 Pro Lys Lys Gly Ser Arg  
           275

&lt;210&gt; 2047

&lt;211&gt; 227

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3831615-1-1-684)

&lt;400&gt; 2047

```

Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Val Pro Lys Met Leu
 1          5          10          15
Gly Thr Leu Leu Ala Gln Asp Thr Thr Ile Ser Phe Leu Gly Cys Ala
          20          25          30
Thr Gln Met Tyr Phe Phe Phe Phe Gly Val Ala Glu Cys Phe Leu
          35          40          45
Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu
          50          55          60
His Tyr Pro Val Ile Met Asn Gln Arg Thr Arg Ala Lys Leu Ala Ala
65          70          75          80
Ala Ser Trp Phe Pro Gly Phe Pro Val Ala Thr Val Gln Thr Thr Trp
          85          90          95
Leu Phe Ser Phe Pro Phe Cys Gly Thr Asn Lys Val Asn His Phe Phe
          100          105          110
Cys Asp Ser Pro Pro Val Leu Lys Leu Val Cys Ala Asp Thr Ala Leu
          115          120          125
Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val Val Met Ile Pro
          130          135          140
Cys Leu Leu Ile Leu Cys Ser Tyr Thr Arg Ile Ala Ala Ala Ile Leu
145          150          155          160
Lys Ile Pro Ser Ala Lys Gly Lys His Lys Ala Phe Ser Thr Cys Ser
          165          170          175
Ser His Leu Leu Val Val Ser Leu Phe Tyr Ile Ser Leu Ser Leu Thr
          180          185          190
Tyr Phe Arg Pro Lys Ser Asn Asn Ser Pro Glu Gly Lys Lys Leu Leu
          195          200          205
Ser Leu Ser Tyr Thr Val Met Thr Pro Met Leu Asn Pro Phe His Leu
          210          215          220
Leu Ser Trp
225

```

&lt;210&gt; 2048

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3831618-1-1-653)

&lt;400&gt; 2048

```

Ser Leu Ala Asp Leu Cys Phe Ser Thr Asn Ile Val Pro Gln Ala Leu
 1          5          10          15
Val His Leu Leu Ser Arg Lys Lys Val Ile Ala Phe Thr Leu Cys Ala
          20          25          30
Ala Arg Leu Leu Phe Phe Leu Ile Phe Gly Cys Thr Gln Cys Ala Leu
          35          40          45
Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu
          50          55          60
Arg Tyr Pro Asp Ile Met Thr Trp Lys Val Cys Val Gln Leu Ala Thr
65          70          75          80
Gly Ser Trp Thr Ser Gly Ile Leu Val Ser Val Val Asp Thr Thr Phe
          85          90          95
Thr Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile Ala His Phe Phe
          100          105          110
Cys Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr Asp Thr His Ala
          115          120          125
Ser Glu Met Ala Ile Phe Leu Thr Gly Val Val Ile Leu Leu Ile Pro
          130          135          140
Val Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile Val Thr Val Val
145          150          155          160
Lys Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe Ser Thr Cys Gly

```

```
<210> 2049
<211> 279
<212> PRT
<213> Homo sapien (3834584-1-78858-80128)
```

```
<210> 2050
<211> 310
<212> PRT
<213> Homo sapien (3924656-1-75882-77814)
```

1197

Leu Val Tyr Val Thr Thr Ile Val Gly Asn Leu Leu Ile Met Val Thr  
 35 40 45  
 Val Thr Phe Asp Cys Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg  
 50 55 60  
 Asn Leu Ala Leu Ile Asp Leu Cys Tyr Ser Thr Val Thr Ser Pro Lys  
 65 70 75 80  
 Met Leu Val Asp Phe Leu His Glu Thr Lys Thr Ile Ser Tyr Gln Gly  
 85 90 95  
 Cys Met Ala Gln Ile Phe Phe Phe His Leu Leu Gly Gly Gly Thr Val  
 100 105 110  
 Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Gln  
 115 120 125  
 Pro Leu Arg Tyr Val Thr Ile Met Asn Thr Gln Leu Cys Val Gly Leu  
 130 135 140  
 Val Val Ala Ala Trp Val Gly Gly Phe Val His Ser Ile Val Gln Leu  
 145 150 155 160  
 Ala Leu Ile Leu Pro Leu Pro Phe Cys Gly Pro Asn Ile Leu Asp Asn  
 165 170 175  
 Phe Tyr Cys Asp Val Pro Gln Val Leu Arg Leu Ala Cys Thr Asp Thr  
 180 185 190  
 Ser Leu Leu Glu Phe Leu Met Ile Ser Asn Ser Gly Leu Leu Val Ile  
 195 200 205  
 Ile Trp Phe Leu Leu Leu Ile Ser Tyr Thr Val Ile Leu Val Met  
 210 215 220  
 Leu Arg Ser His Ser Gly Lys Ala Arg Arg Lys Ala Ala Ser Thr Cys  
 225 230 235 240  
 Thr Thr His Ile Ile Val Val Ser Met Ile Phe Ile Pro Cys Ile Tyr  
 245 250 255  
 Ile Tyr Thr Trp Pro Phe Thr Pro Phe Leu Met Asp Lys Ala Val Ser  
 260 265 270  
 Ile Ser Tyr Thr Val Met Thr Pro Met Leu Asn Pro Met Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Gln Asp Met Lys Ala Ala Met Arg Arg Leu Gly Lys Cys  
 290 295 300  
 Leu Val Ile Cys Arg Glu  
 305 310

&lt;210&gt; 2051

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3962498-1-83664-84695)

&lt;400&gt; 2051

Met Ser Gly Ser Pro Thr Gln Leu Thr Ala Gly Pro Arg Thr Ala Ser  
 1 5 10 15  
 Gly Cys Val Ile Met Ile Cys Phe Ala Leu Thr Val Leu Ser Tyr Ile  
 20 25 30  
 Arg Ile Leu Ala Thr Val Val Gln Ile Arg Ser Ala Ala Ser Arg Arg  
 35 40 45  
 Lys Ala Phe Ser Thr Cys Ser Ser His Leu Gly Met Val Leu Leu Phe  
 50 55 60  
 Tyr Gly Thr Gly Ser Ser Thr Tyr Met Arg Pro Thr Thr Arg Tyr Ser  
 65 70 75 80  
 Pro Leu Glu Gly Arg Leu Ala Ala Val Phe Tyr Ser Ile Leu Ile Pro  
 85 90 95  
 Thr Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Gln Asp Met Lys Arg  
 100 105 110  
 Ala Leu Trp Lys Leu Tyr Leu Gln Val Pro Tyr  
 115 120

&lt;210&gt; 2052

<211> 343  
 <212> PRT  
 <213> Homo sapien (3970959-1-83329-85626)

<220>  
 <221> VARIANT  
 <222> (1)...(343)  
 <223> Xaa = Any Amino Acid

<400> 2052

Met	Val	Asn	Gln	Ser	Ser	Ala	Pro	Gly	Phe	Leu	Leu	Leu	Gly	Phe	Ser
1				5					10					15	
Glu	His	Pro	Ala	Leu	Glu	Arg	Thr	Leu	Phe	Val	Val	Val	Phe	Thr	Ser
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Gly	Gly	Leu	Ile	Ile	Leu	Leu	Ser	Val	Leu	Asp
			35				40					45			
Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu	Ser	Phe
			50			55					60				
Leu	Asp	Leu	Cys	Phe	Thr	Ile	Ser	Cys	Val	Pro	Gly	Met	Leu	Val	Asn
65					70				75					80	
Leu	Trp	Glu	Pro	Lys	Lys	Thr	Ile	Ile	Leu	Leu	Gly	Cys	Ser	Val	Gln
				85					90					95	
Phe	Phe	Ile	Phe	Leu	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Ile	Leu	Leu	Thr
			100					105					110		
Val	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Phe	Lys	Pro	Leu	Arg	His
			115				120					125			
Ala	Thr	Ile	Val	His	Leu	Cys	Leu	Cys	Trp	Gln	Leu	Ala	Ser	Val	Ala
						135					140				
Trp	Val	Ile	Gly	Leu	Val	Glu	Ser	Val	Val	Gln	Thr	Pro	Ser	Thr	Leu
145					150					155					160
Arg	Leu	Pro	Phe	Cys	Pro	His	Gln	Gln	Val	Asp	Asp	Phe	Val	Cys	Glu
				165					170					175	
Val	Pro	Ala	Leu	Ile	Arg	Leu	Ser	Cys	Glu	Asp	Thr	Ser	Tyr	Asn	Glu
				180				185					190		
Ile	Gln	Met	Ala	Val	Ala	Ser	Val	Phe	Ile	Leu	Ala	Val	Pro	Ser	Leu
		195					200					205			
Ile	Leu	Val	Ser	Tyr	Gly	Ala	Ile	Ala	Trp	Ala	Val	Leu	Arg	Ile	Thr
		210				215					220				
Ala	Lys	Gly	Gln	Arg	Lys	Ala	Phe	Gly	Thr	Cys	Ser	Ser	His	Leu	Thr
225					230					235				240	
Val	Val	Thr	Leu	Phe	Tyr	Ser	Ser	Val	Ile	Ala	Val	Tyr	Leu	Gln	Pro
				245					250					255	
Lys	Asn	Pro	Tyr	Ala	Gln	Glu	Arg	Gly	Lys	Phe	Phe	Gly	Leu	Phe	Tyr
			260					265					270		
Ala	Val	Gly	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn
			275				280					285			
Lys	Glu	Val	Thr	Arg	Ala	Phe	Arg	Arg	Leu	Leu	Ala	Lys	Glu	Met	Gly
		290				295					300				
Leu	Ile	Gln	Ser	Xaa	Gly	Arg	Ala	Val	Xaa	Cys	Ala	Phe	Xaa	Ile	Lys
305					310					315					320
Lys	Lys	Leu	Phe	Ile	Leu	Leu	Xaa	Thr	Ser	Leu	Ser	Ser	Gln	Val	Tyr
				325					330					335	
Tyr	Leu	Ser	Tyr	Thr	His	His									
						340									

<210> 2053  
 <211> 312  
 <212> PRT  
 <213> Homo sapien (3982606-1-1-939)

<400> 2053

```

Met Asp Gly Val Asn Asp Ser Ser Leu Gln Gly Phe Val Leu Met Ser
1      5      10      15
Ile Ser Asp His Pro Gln Leu Glu Met Ile Phe Phe Ile Ala Ile Leu
20     25     30
Phe Ser Tyr Leu Leu Thr Leu Leu Gly Asn Ser Thr Ile Ile Leu Leu
35     40     45
Ser Arg Leu Glu Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50     55     60
Asn Leu Ser Ser Leu Asp Leu Ala Phe Ala Thr Ser Ser Val Pro Gln
65     70     75     80
Met Leu Ile Asn Leu Trp Gly Pro Gly Lys Thr Ile Ser Tyr Gly Gly
85     90     95
Cys Ile Thr Gln Leu Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Cys
100    105    110
Ile Leu Leu Val Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Arg
115    120    125
Pro Leu Arg Tyr Thr Ala Ile Met Asn Pro Gln Leu Cys Trp Leu Leu
130    135    140
Ala Val Ile Ala Trp Leu Gly Gly Leu Gly Asn Ser Val Ile Gln Ser
145    150    155    160
Thr Phe Thr Leu Gln Leu Pro Leu Cys Gly His Arg Arg Val Glu Gly
165    170    175
Phe Leu Cys Glu Val Pro Ala Met Ile Lys Leu Ala Cys Gly Asp Thr
180    185    190
Ser Leu Asn Gln Ala Val Leu Asn Gly Val Cys Thr Phe Phe Thr Ala
195    200    205
Val Pro Leu Ser Ile Ile Val Ile Ser Tyr Cys Leu Ile Ala Gln Ala
210    215    220
Val Leu Lys Ile His Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn Thr
225    230    235    240
Cys Leu Ser His Leu Leu Val Val Phe Leu Phe Tyr Gly Ser Ala Ser
245    250    255
Tyr Gly Tyr Leu Leu Pro Ala Lys Asn Ser Lys Gln Asp Gln Gly Lys
260    265    270
Phe Ile Ser Leu Phe Tyr Ser Leu Val Thr Pro Met Val Asn Pro Leu
275    280    285
Ile Tyr Thr Leu Arg Asn Met Glu Val Lys Gly Ala Leu Arg Arg Leu
290    295    300
Leu Gly Lys Gly Arg Glu Val Gly
305    310

```

&lt;210&gt; 2054

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (3983513-1-17888-18909)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(104)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2054

```

Val Pro Val Arg Cys Pro Gly Arg Val Arg Thr Leu Val Pro Glu Ile
1      5      10      15
Ile Ser Val Asp Phe Pro Xaa Xaa Thr Leu Ile Xaa Gln Glu Val Tyr
20     25     30
Gly Leu Leu Ser Thr Phe Pro Leu Phe Ala Gln Gly Val Cys Gly Pro
35     40     45
Lys Ile Ile Ser Lys Ala Phe Cys Phe Ser Leu Leu Lys Gly Gly Cys
50     55     60
Ser His Ser Leu Gln Leu Ala Lys Gly Gly Gly Val Leu Arg Lys Ala

```

```
<210> 2055
<211> 210
<212> PRT
<213> Homo sapien (4156137-1-118865-120877)
```

```
<220>  
<221> VARIANT  
<222> (1)...(210)  
<223> Xaa = Any Amino Acid
```

[illegible]

```
<210> 2056
<211> 310
<212> PRT
<213> Homo sapien (4156187-1-109107-111440)
```

<400> 2056															
Met	Gly	Asp	Asn	Ile	Thr	Ser	Ile	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Phe
1				5					10					15	
Pro	Val	Gly	Pro	Arg	Ile	Gln	Met	Leu	Leu	Phe	Gly	Leu	Phe	Ser	Leu
			20					25					30		
Phe	Tyr	Val	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Thr	Ile	Leu	Gly	Leu	Ile
		35					40					45			
Ser	Leu	Asp	Ser	Arg	Leu	His	Ala	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ala	Val	Val	Asp	Ile	Ala	Tyr	Ala	Cys	Asn	Thr	Val	Pro	Arg	Met

```

65          70          75          80
Leu Val Asn Leu Leu His Pro Ala Lys Pro Ile Ser Phe Ala Gly Arg
      85          90          95
Met Met Gln Thr Phe Leu Phe Ser Thr Phe Ala Val Thr Glu Cys Leu
      100          105          110
Leu Leu Val Val Met Ser Tyr Asp Leu Tyr Val Ala Ile Cys His Pro
      115          120          125
Leu Arg Tyr Leu Ala Ile Met Thr Trp Arg Val Cys Ile Thr Leu Ala
      130          135          140
Val Thr Ser Trp Thr Thr Gly Val Leu Leu Ser Leu Ile His Leu Val
      145          150          155          160
Leu Leu Leu Pro Leu Pro Phe Cys Arg Pro Gln Lys Ile Tyr His Phe
      165          170          175
Phe Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Thr His
      180          185          190
Ile Asn Glu Asn Met Val Leu Ala Gly Ala Ile Ser Gly Leu Val Gly
      195          200          205
Pro Leu Ser Thr Ile Val Val Ser Tyr Met Cys Ile Leu Cys Ala Ile
      210          215          220
Leu Gln Ile Gln Ser Arg Glu Val Gln Arg Lys Ala Phe Cys Thr Cys
      225          230          235          240
Phe Ser His Leu Cys Val Ile Gly Leu Phe Tyr Gly Thr Ala Ile Ile
      245          250          255
Met Tyr Val Gly Pro Arg Tyr Gly Asn Pro Lys Glu Gln Lys Lys Tyr
      260          265          270
Leu Leu Leu Phe His Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile
      275          280          285
Cys Ser Leu Arg Asn Ser Glu Val Lys Asn Thr Leu Lys Arg Val Leu
      290          295          300
Gly Val Glu Arg Ala Leu
      305          310

```

&lt;210&gt; 2057

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (4156187-1-27673-28734)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(127)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2057

```

Met Gly Gly Lys Gln Pro Trp Val Thr Glu Phe Ile Leu Val Gly Phe
1          5          10          15
Gln Leu Cys Ala Glu Met Glu Ile Phe Leu Ser Cys Ile Phe Ser Arg
      20          25          30
Phe Tyr Ala Phe Ser Leu Leu Arg Asn Gly Met Asn Met Gly Leu Thr
      35          40          45
Tyr Leu Asp Asp Arg Asp Asp Arg Leu His Thr Leu Ile Tyr Ile Phe
      50          55          60
Leu Ser His Leu Ala Ile Asn Asp Met Tyr Tyr Ala Ser Asn Asn Val
      65          70          75          80
Pro Lys Arg Gln Val Asn Gln Met Asn Gln Lys Lys Lys Tyr Phe Val
      85          90          95
Leu Trp Ile Lys Gln Ile Phe Leu Tyr Leu Ala Phe Ala His Thr Glu
      100          105          110
Cys Leu Ile Xaa Ala Met Met Ser Cys Asn Arg Tyr Val Ala Ile
      115          120          125

```

&lt;210&gt; 2058



<211> 312  
 <212> PRT  
 <213> Homo sapien (4156187-1-8673-10070)

<220>  
 <221> VARIANT  
 <222> (1)...(312)  
 <223> Xaa = Any Amino Acid

<400> 2058  
 Met Gly Asp Asn Gln Ser Arg Val Thr Glu Phe Ile Leu Val Gly Phe  
 1 5 10 15  
 Gln Leu Ser Val Glu Met Glu Val Leu Leu Phe Trp Ile Phe Ser Leu  
 20 25 30  
 Leu Tyr Leu Phe Ser Leu Leu Ala Asn Gly Met Ile Leu Gly Leu Ile  
 35 40 45  
 Cys Leu Asp Pro Arg Leu Arg Thr Pro Met Tyr Phe Phe Leu Ser His  
 50 55 60  
 Leu Ala Val Ile Asp Ile Tyr Tyr Ala Ser Ser Asn Leu Leu Asn Met  
 65 70 75 80  
 Leu Glu Asn Leu Val Lys His Lys Lys Asn Tyr Pro Phe Ile Ser Cys  
 85 90 95  
 Ile Met Gln Met Ala Leu Tyr Leu Thr Phe Ala Ala Ala Val Cys Met  
 100 105 110  
 Ile Leu Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro  
 115 120 125  
 Leu His Tyr Thr Val Ile Met Asn Trp Arg Val Cys Thr Val Leu Ala  
 130 135 140  
 Ile Thr Ser Trp Ala Cys Gly Phe Ser Leu Ala Leu Ile Asn Leu Ile  
 145 150 155 160  
 Leu Leu Leu Arg Leu Pro Phe Cys Gly Pro Gln Glu Val Asn His Phe  
 165 170 175  
 Phe Gly Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp  
 180 185 190  
 Ile Asn Glu Ile Phe Val Phe Ala Gly Gly Val Phe Val Leu Val Gly  
 195 200 205  
 Pro Leu Ser Leu Met Leu Ile Ser Tyr Met Arg Ile Leu Leu Ala Ile  
 210 215 220  
 Leu Lys Ile Gln Ser Lys Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Leu Cys Val Val Gly Leu Tyr Phe Gly Met Ala Met Val  
 245 250 255  
 Val Tyr Leu Val Pro Asp Asn Ser Gln Arg Gln Lys Gln Gln Lys Ile  
 260 265 270  
 Leu Thr Leu Phe Tyr Ser Leu Phe Asn Pro Leu Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Ala Gln Val Lys Gly Ala Leu Tyr Arg Ala Leu  
 290 295 300  
 Gln Lys Lys Arg Thr Met Xaa Met  
 305 310

<210> 2059  
 <211> 315  
 <212> PRT  
 <213> Homo sapien (4160227-1-768-2100)

<220>  
 <221> VARIANT  
 <222> (1)...(315)  
 <223> Xaa = Any Amino Acid

&lt;400&gt; 2059

```

Met Pro Leu Thr Asn Glu Ser His Pro Glu Glu Phe Ile Leu Leu Gly
 1          5          10          15
Phe Ala Asp Arg Pro Trp Leu Glu Leu Pro Leu Phe Thr Ser Leu Leu
          20          25          30
Ile Met Tyr Pro Ile Ala Val Met Gly Asn Ile Thr Ile Ile Leu Met
          35          40          45
Ser Arg Leu Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu Thr
          50          55          60
Asn Leu Ser Phe Leu Asp Met Cys Tyr Thr Thr Ser Ile Val Pro Gln
          65          70          75          80
Met Leu Phe Asn Leu Gly Ser Ser Lys Lys Thr Ile Ser Tyr Met Gly
          85          90          95
Cys Ala Val Gln Leu Tyr Phe Phe His Ile Met Gly Gly Thr Glu Cys
          100          105          110
Leu Leu Leu Ala Ile Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Arg
          115          120          125
Pro Leu His Tyr Thr Leu Ile Met Asn Gln Arg Val Cys Ile His Xaa
          130          135          140
Phe Pro Pro Cys Trp Leu Ile Gly Ile Ile Tyr Ala Val Ser Glu Ala
          145          150          155          160
Thr Ala Thr Leu Gln Leu Pro Leu Cys Gly Ser Asn Lys Leu Asp His
          165          170          175
Leu Val Cys Glu Ile Pro Val Leu Ile Lys Ile Ala Cys Gly Glu Lys
          180          185          190
Gly Ser Asn Glu Leu Thr Leu Ser Val Val Cys Ile Phe Met Leu Ala
          195          200          205
Val Pro Leu Cys Leu Ile Leu Ala Ser Tyr Ala Ser Ile Gly Ser Ala
          210          215          220
Val Phe Lys Ile Lys Ser Ser Lys Gly Arg Lys Lys Ala Phe Gly Thr
          225          230          235          240
Cys Ser Ser His Leu Ile Val Val Phe Leu Phe Tyr Gly Pro Ala Ile
          245          250          255
Ser Met Tyr Leu Gln Pro Pro Ser Ser Ile Ser Arg Asp Gln Pro Lys
          260          265          270
Phe Met Ala Leu Phe Tyr Gly Val Val Thr Pro Ser Leu Asn Pro Phe
          275          280          285
Ile Tyr Thr Leu Arg Asn Lys Asn Val Lys Gly Ala Leu Arg Asn Leu
          290          295          300
Val Arg Ser Ile Phe Ser Phe Lys Xaa Xaa Trp
          305          310          315

```

&lt;210&gt; 2060

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (4190944-1-137143-138613)

&lt;400&gt; 2060

```

Met Glu Ile Lys Asn Tyr Ser Ser Ser Thr Ser Gly Phe Ile Leu Leu
 1          5          10          15
Gly Leu Ser Ser Asn Pro Gln Leu Gln Lys Pro Leu Phe Ala Ile Phe
          20          25          30
Leu Ile Met Tyr Leu Leu Ala Ala Val Gly Asn Val Leu Ile Ile Pro
          35          40          45
Ala Ile Tyr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu
          50          55          60
Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr Thr Val Ile Val Pro
          65          70          75          80
Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys Val Ile Ser Tyr Val
          85          90          95
Gly Cys Leu Ala Gln Met Tyr Phe Phe Met Ala Phe Gly Asn Thr Asp

```

```

      100      105      110
Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile Cys
      115      120      125
Asn Pro Leu His Tyr Asp Val Val Met Lys Pro Arg His Cys Leu Leu
      130      135      140
Met Leu Leu Gly Ser Cys Ser Ile Ser His Leu His Ser Leu Phe Arg
      145      150      155      160
Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala Ser His Ile Ile Lys
      165      170      175
His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser Asp
      180      185      190
Thr Ser Ser Ser Gln Met Val Val Met Thr Glu Thr Leu Ala Val Ile
      195      200      205
Val Thr Pro Phe Leu Cys Ile Ile Phe Ser Tyr Leu Arg Ile Met Val
      210      215      220
Thr Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Trp Lys Ala Phe Ser
      225      230      235      240
Thr Cys Gly Ser His Leu Thr Ala Val Ala Leu Phe Tyr Gly Ser Ile
      245      250      255
Ile Tyr Val Tyr Phe Arg Pro Leu Ser Met Tyr Ser Val Val Arg Asp
      260      265      270
Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
      275      280      285
Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Lys Lys
      290      295      300
Leu Gln Asp Arg Ile Tyr Arg
      305      310

```

&lt;210&gt; 2061

&lt;211&gt; 145

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (4190944-1-141327-142434)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(145)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2061

```

Met Thr Thr Pro Phe Asn Ser Ser Leu Ile Met Phe Ser Leu Leu Asp
 1      5      10      15
Ser Ser Met Pro Glu Ile Leu Cys Pro Leu Pro Tyr Phe Phe Leu Gly
      20      25      30
Ser His Ala Thr His Ser Ser Xaa Leu Ser Ser Leu Thr Leu Ile Asn
      35      40      45
Arg Xaa Asn Met Phe Ser Glu Leu Asn Ser Pro Tyr Phe Ser Ile Glu
      50      55      60
Leu Asn Leu Lys Tyr Leu Tyr Ile Cys Asn Lys Leu Thr Leu Glu Lys
      65      70      75      80
Pro Asn Thr Phe Phe Xaa Thr Phe Cys Val Leu Ser Thr Asn Glu Arg
      85      90      95
Pro Met Val Leu Phe Leu Tyr Cys Ile Gln Pro Ala Phe Trp Ile Pro
      100      105      110
Ile Trp Xaa Asn Lys Glu Leu Ala Arg Arg Phe Leu Val Tyr Ser Gln
      115      120      125
Gly Leu Cys Ser Ser Ile Xaa Asp Asn Val Thr Arg Cys Pro Glu Ala
      130      135      140
Cys
      145

```

&lt;210&gt; 2062

<211> 318  
 <212> PRT  
 <213> Homo sapien (4190944-1-15386-17112)

<400> 2062

```

Met Met Ser Phe Ala Pro Asn Ala Ser His Ser Pro Val Phe Leu Leu
 1          5          10          15
Leu Gly Phe Ser Arg Ala Asn Ile Ser Tyr Thr Leu Leu Phe Phe Leu
          20          25          30
Phe Leu Ala Ile Tyr Leu Thr Thr Ile Leu Gly Asn Val Thr Leu Val
          35          40          45
Leu Leu Ile Ser Trp Asp Ser Arg Leu His Ser Pro Met Tyr Tyr Leu
          50          55          60
Leu Arg Gly Leu Ser Val Ile Asp Met Gly Leu Ser Thr Val Thr Leu
          65          70          75          80
Pro Gln Leu Leu Ala His Leu Val Ser His Tyr Pro Thr Ile Pro Ala
          85          90          95
Ala Arg Cys Leu Ala Gln Phe Phe Phe Phe Tyr Ala Phe Gly Val Thr
          100          105          110
Asp Thr Leu Val Ile Ala Val Met Ala Leu Asp Arg Tyr Val Ala Ile
          115          120          125
Cys Asp Pro Leu His Tyr Ala Leu Val Met Asn His Gln Arg Cys Ala
          130          135          140
Cys Leu Leu Ala Leu Ser Trp Val Val Ser Ile Leu His Thr Met Leu
          145          150          155          160
Arg Val Gly Leu Val Leu Pro Leu Cys Trp Thr Gly Asp Ala Gly Gly
          165          170          175
Asn Val Asn Leu Pro His Phe Phe Cys Asp His Arg Pro Leu Leu Arg
          180          185          190
Ala Ser Cys Ser Asp Ile His Ser Asn Glu Leu Ala Ile Phe Phe Glu
          195          200          205
Gly Gly Phe Leu Met Leu Gly Pro Cys Ala Leu Ile Val Leu Ser Tyr
          210          215          220
Val Arg Ile Gly Ala Ala Ile Leu Arg Leu Pro Ser Ala Ala Gly Arg
          225          230          235          240
Arg Arg Ala Val Ser Thr Cys Gly Ser His Leu Thr Met Val Gly Phe
          245          250          255
Leu Tyr Gly Thr Ile Ile Cys Val Tyr Phe Gln Pro Pro Phe Gln Asn
          260          265          270
Ser Gln Tyr Gln Asp Met Val Ala Ser Val Met Tyr Thr Ala Ile Thr
          275          280          285
Pro Leu Ala Asn Pro Phe Val Tyr Ser Leu His Asn Lys Asp Val Lys
          290          295          300
Gly Ala Leu Cys Arg Leu Leu Glu Trp Val Lys Val Asp Pro
          305          310          315

```

<210> 2063  
 <211> 317  
 <212> PRT  
 <213> Homo sapien (4190944-1-176262-177597)

<400> 2063

```

Met Asn Ser Glu Asn Leu Thr Arg Ala Ala Val Ala Pro Ala Glu Phe
 1          5          10          15
Val Leu Leu Gly Ile Thr Asn Arg Trp Asp Leu Arg Val Ala Leu Phe
          20          25          30
Leu Thr Cys Leu Pro Val Tyr Leu Val Ser Leu Leu Gly Asn Met Gly
          35          40          45
Met Ala Leu Leu Ile Arg Met Asp Ala Arg Leu His Thr Pro Met Tyr
          50          55          60
Phe Phe Leu Ala Asn Leu Ser Leu Leu Asp Ala Cys Tyr Ser Ser Ala

```

65					70					75				80
Ile	Gly	Pro	Lys	Met	Leu	Val	Asp	Leu	Leu	Leu	Pro	Arg	Ala	Thr
				85					90					95
Pro	Tyr	Thr	Ala	Cys	Ala	Leu	Gln	Met	Phe	Val	Phe	Ala	Gly	Leu
			100					105					110	
Asp	Thr	Glu	Cys	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr
		115					120					125		Val
Ala	Ile	Arg	Asn	Pro	Leu	Leu	Tyr	Thr	Thr	Ala	Met	Ser	Gln	Arg
		130					135				140			Leu
Cys	Leu	Ala	Leu	Leu	Gly	Ala	Ser	Gly	Leu	Gly	Gly	Ala	Val	Ser
145					150					155				160
Phe	Val	His	Thr	Thr	Leu	Thr	Phe	Arg	Leu	Ser	Phe	Cys	Arg	Ser
			165						170					175
Lys	Ile	Asn	Ser	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Ile
		180					185						190	Ser
Cys	Ser	Asp	Thr	Ser	Leu	Asn	Glu	Leu	Leu	Leu	Phe	Ala	Ile	Cys
		195					200					205		Gly
Phe	Ile	Gln	Thr	Ala	Thr	Val	Leu	Ala	Ile	Thr	Val	Ser	Tyr	Gly
		210				215					220			Phe
Ile	Ala	Gly	Ala	Val	Ile	His	Met	Arg	Ser	Val	Glu	Gly	Ser	Arg
225					230					235				240
Ala	Ala	Ser	Thr	Gly	Gly	Ser	His	Leu	Thr	Ala	Val	Ala	Met	Met
				245					250					255
Gly	Thr	Leu	Ile	Phe	Met	Tyr	Leu	Arg	Pro	Ser	Ser	Ser	Tyr	Ala
		260					265						270	Leu
Asp	Thr	Asp	Lys	Met	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro
		275					280					285		Ser
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu
		290				295					300			Ala
Leu	Arg	Gln	Thr	Trp	Ser	Arg	Phe	His	Cys	Pro	Gly	Gln		
305					310					315				

&lt;210&gt; 2064

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (4190944-1-2029-4183)

&lt;400&gt; 2064

Met	Asp	Asn	Ser	Asn	Trp	Thr	Ser	Val	Ser	His	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Ile	Ser	Thr	His	Pro	Glu	Glu	Gln	Ile	Pro	Leu	Phe	Leu	Val	Phe	Ser
			20					25					30		
Leu	Met	Tyr	Ala	Ile	Asn	Ile	Ser	Gly	Asn	Leu	Ala	Ile	Ile	Thr	Leu
		35					40					45			
Ile	Leu	Ser	Ala	Pro	Arg	Leu	His	Ile	Pro	Met	Tyr	Ile	Phe	Leu	Ser
		50				55					60				
Asn	Leu	Ala	Leu	Thr	Asp	Ile	Cys	Phe	Thr	Ser	Thr	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Gln	Ile	Ile	Phe	Ser	Pro	Thr	Lys	Val	Ile	Ser	Tyr	Thr	Gly
			85						90					95	
Cys	Leu	Ala	Gln	Thr	Tyr	Phe	Phe	Ile	Cys	Phe	Ala	Val	Met	Glu	Asn
			100					105					110		
Phe	Ile	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	His
			115				120					125			
Pro	Phe	His	Tyr	Thr	Met	Ile	Leu	Thr	Arg	Met	Leu	Cys	Val	Lys	Met
			130			135					140				
Val	Val	Met	Cys	His	Ala	Leu	Ser	His	Leu	His	Ala	Met	Leu	His	Thr
145					150					155					160
Phe	Leu	Ile	Gly	Gln	Leu	Ile	Phe	Cys	Ala	Asp	Asn	Arg	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Tyr	Ala	Leu	Met	Lys	Ile	Ser	Cys	Thr	Ser	Thr

```

      180      185      190
Tyr Leu Asn Thr Leu Met Ile His Thr Glu Gly Ala Val Val Ile Ser
      195      200      205
Gly Ala Leu Ala Phe Ile Thr Ala Ser Tyr Ala Cys Ile Ile Leu Val
      210      215      220
Val Leu Arg Ile Pro Ser Ala Lys Gly Arg Trp Lys Thr Phe Ser Thr
225      230      235      240
Cys Gly Ser His Leu Thr Val Val Ala Ile Phe Tyr Gly Thr Leu Ser
      245      250      255
Trp Val Tyr Phe Arg Pro Leu Ser Ser Tyr Ser Val Thr Lys Gly Arg
      260      265      270
Ile Ile Thr Val Val Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
      275      280      285
Ile Tyr Ser Leu Arg Asn Gly Asp Val Lys Gly Gly Phe Met Lys Trp
290      295      300
Met Ser Arg Met Gln Thr Phe Phe Phe Arg
305      310

```

&lt;210&gt; 2065

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (438406-1-1-648)

&lt;400&gt; 2065

```

Val Leu Asp Val Gly Cys Ile Thr Val Thr Val Pro Ala Met Leu Gly
 1      5      10      15
Arg Leu Leu Ser His Lys Ser Thr Ile Ser Tyr Asp Ala Cys Leu Ser
      20      25      30
Gln Leu Phe Phe Phe His Leu Leu Ala Gly Met Asp Cys Phe Leu Leu
35      40      45
Thr Ala Met Ala Tyr Asp Arg Leu Leu Gly Ile Cys Gln Ala Leu Thr
50      55      60
Tyr Arg Thr Arg Met Ser Gln Thr Val Gln Arg Met Leu Val Ala Ala
65      70      75      80
Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu Thr His Thr Val Gly Met
      85      90      95
Ser Thr Leu Asn Phe Cys Gly Pro Asn Val Ile Asn His Phe Tyr Cys
100      105      110
Asp Leu Pro Gln Leu Phe Lys Leu Ser Cys Ser Ser Thr Gln Leu Asn
115      120      125
Glu Leu Leu Leu Phe Ala Val Gly Phe Ile Met Ala Gly Thr Pro Met
130      135      140
Ala Leu Ile Val Ile Ser Tyr Ile His Val Ala Ala Val Leu Arg
145      150      155      160
Ile Arg Ser Val Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Gly Ser
      165      170      175
His Leu Thr Val Val Ala Ile Phe Tyr Gly Ser Gly Ile Phe Asn Tyr
180      185      190
Met Arg Leu Gly Ser Thr Lys Leu Ser Asp Lys Asp Lys Ala Val Gly
195      200      205
Ile Phe Asn Thr Val Ile Asn Pro
210      215

```

&lt;210&gt; 2066

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (4581418-1-11548-14170)

&lt;400&gt; 2066

```

Met Asp Gln Ser Asn Tyr Ser Ser Leu His Gly Phe Ile Leu Leu Gly
 1      5      10      15

```

Phe Ser Asn His Pro Lys Met Glu Met Ile Leu Ser Gly Val Val Ala  
 20 25 30  
 Ile Phe Tyr Leu Ile Thr Leu Val Gly Asn Thr Ala Ile Ile Leu Ala  
 35 40 45  
 Ser Leu Leu Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Arg  
 50 55 60  
 Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Ile Ile Pro Gln  
 65 70 75 80  
 Met Leu Val Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Tyr Val Gly  
 85 90 95  
 Cys Ile Ile Gln Leu Tyr Val Tyr Met Trp Leu Gly Ser Val Glu Cys  
 100 105 110  
 Leu Leu Leu Ala Val Met Ser Tyr Asp Arg Phe Thr Ala Ile Cys Lys  
 115 120 125  
 Pro Leu His Tyr Phe Val Val Met Asn Pro His Leu Cys Leu Lys Met  
 130 135 140  
 Ile Ile Met Ile Trp Ser Ile Ser Leu Ala Asn Ser Val Val Leu Cys  
 145 150 155 160  
 Thr Leu Thr Leu Asn Leu Pro Thr Cys Gly Asn Asn Ile Leu Asp His  
 165 170 175  
 Phe Leu Cys Glu Leu Pro Ala Leu Val Lys Ile Ala Cys Val Asp Thr  
 180 185 190  
 Thr Thr Val Glu Met Ser Val Phe Ala Leu Gly Ile Ile Ile Val Leu  
 195 200 205  
 Thr Pro Leu Ile Leu Ile Leu Ile Ser Tyr Gly Tyr Ile Ala Lys Ala  
 210 215 220  
 Val Leu Arg Thr Lys Ser Lys Ala Ser Gln Arg Lys Ala Met Asn Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Thr Val Val Ser Met Phe Tyr Gly Thr Ile Ile  
 245 250 255  
 Tyr Met Tyr Leu Gln Pro Gly Asn Arg Ala Ser Lys Asp Gln Gly Lys  
 260 265 270  
 Phe Leu Thr Leu Phe Tyr Thr Val Ile Thr Pro Ser Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys Asp Ala Leu Lys Lys Leu  
 290 295 300  
 Met Arg Phe His His Lys Ser Thr Lys Ile Lys Arg Asn Cys  
 305 310 315

&lt;210&gt; 2067

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (4581418-1-39007-42459)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(257)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2067

Phe Ile Leu Trp Gly Phe Phe Asp His Pro Xaa Pro Glu Met Phe Leu  
 1 5 10 15  
 Phe Ile Met Gly Leu Val Gly Leu Ser Leu His Thr Gly Gly Gln His  
 20 25 30  
 Leu Asn Tyr Cys Gly Thr Gln Gly Ile Phe Xaa Gly Ser Thr Lys Cys  
 35 40 45  
 Ile Ile Leu Ala Val Thr Ser Leu Asp Pro Tyr Ile Ala Ile Cys Lys  
 50 55 60  
 His Leu Arg Tyr Pro Ala Ile Met His Gln Gln Leu Cys Val Leu Leu  
 65 70 75 80  
 Val Ala Met Ala Trp Leu Ser Ser Leu Ala Asn Ser Leu Gln Ser Ser

```

      85      90      95
Leu Ala Val Gln Leu Pro Leu Gly Gly Asn Lys Val Asp Asp Phe Leu
      100      105      110
Cys Glu Val Ser Ala Met Ile Lys Ile Ser Arg Phe Asp Thr Thr Phe
      115      120      125
Asn Val Ser Met Leu Ser Ile Val Arg Ile Phe Xaa Ser Leu Val Leu
      130      135      140
Xaa Ser Ile Ile Phe Ala Tyr Cys Gly Phe Ile Val Ala Thr Val Leu
145      150      155      160
Arg Ile Gln Ser Ser Gly Gly Lys Lys Glu Val Phe Asn Thr Cys Gly
      165      170      175
Ser His Ile Val Ser Leu Leu Tyr Gly Pro Val Ile Ser Met Tyr Val
      180      185      190
Gln Pro Ser Ala Asn Ser Gln Asp Lys Asn Lys Phe Met Ser Leu Phe
      195      200      205
Tyr Ser Leu Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Thr Leu Ser
      210      215      220
Asn Arg Asp Ile Lys Gly Ala Met Arg Arg Leu Leu Val Phe Leu Tyr
225      230      235      240
His Gln Glu Glu Asn Lys Ser Asn Tyr Cys Leu Tyr Ser Thr Phe Phe
      245      250      255
Ile

```

&lt;210&gt; 2068

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (5081803-1-1-930)

&lt;400&gt; 2068

```

Met Lys Lys Glu Asn Gln Ser Phe Asn Leu Asp Phe Ile Leu Leu Gly
 1      5      10      15
Val Thr Ser Gln Gln Glu Gln Asn Asn Val Phe Phe Val Ile Phe Leu
      20      25      30
Cys Ile Tyr Pro Ile Thr Leu Thr Gly Asn Leu Leu Ile Ile Leu Ala
      35      40      45
Ile Cys Ala Asp Ile Arg Leu His Asn Pro Met Tyr Phe Leu Leu Ala
      50      55      60
Asn Leu Ser Leu Val Asp Ile Ile Phe Ser Ser Val Thr Ile Pro Lys
      65      70      75      80
Val Leu Ala Asn His Leu Leu Gly Ser Lys Phe Ile Ser Phe Gly Gly
      85      90      95
Cys Leu Met Gln Met Tyr Phe Met Ile Ala Leu Ala Lys Ala Asp Ser
      100      105      110
Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Cys
      115      120      125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Leu Leu
      130      135      140
Ile Ala Gly Ser Trp Val Ile Gly Asn Thr Ser Ala Leu Pro His Thr
145      150      155      160
Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn
      165      170      175
Phe Tyr Cys Asp Ile Met Pro Leu Leu Lys Leu Ser Cys Ser Asp Val
      180      185      190
His Phe Asn Val Lys Met Met Tyr Leu Gly Val Gly Val Phe Ser Leu
      195      200      205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Val Gln Val Phe Ser Thr Val
      210      215      220
Phe Gln Val Pro Ser Thr Lys Ser Leu Phe Lys Ala Phe Cys Thr Cys
225      230      235      240
Gly Ser His Leu Thr Val Val Phe Leu Tyr Tyr Gly Thr Thr Met Gly

```



				245					250					255			
Met	Tyr	Phe	Arg	Pro	Leu	Thr	Ser	Tyr	Ser	Pro	Lys	Asp	Ala	Val	Ile		
			260					265					270				
Thr	Val	Met	Tyr	Val	Ala	Val	Thr	Pro	Ala	Leu	Asn	Pro	Phe	Ile	Tyr		
		275					280					285					
Ser	Leu	Arg	Asn	Trp	Asp	Met	Lys	Ala	Ala	Leu	Gln	Lys	Leu	Phe	Ser		
	290					295					300						
Lys	Arg	Ile	Ser	Ser													
305																	

&lt;210&gt; 2069

&lt;211&gt; 272

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (5262456-1-1-1993)

&lt;400&gt; 2069

Met	Trp	Ile	Asn	Asn	Gln	Ser	Ser	Leu	Asp	Asp	Phe	Ile	Leu	Leu	Gly		
1			5					10					15				
Phe	Ser	Asp	Arg	Pro	Trp	Leu	Glu	Thr	Pro	Leu	Val	Ile	Phe	Leu	Val		
		20					25					30					
Ala	Tyr	Ile	Phe	Ser	Leu	Phe	Gly	Asn	Ile	Ser	Ile	Ile	Leu	Val	Ser		
	35						40					45					
His	Leu	Asp	Pro	Gln	Leu	Asp	Ser	Pro	Met	Tyr	Phe	Phe	Val	Ser	Asn		
	50				55					60							
Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln	Met		
65				70						75					80		
Leu	Val	Asn	Leu	Arg	Gly	Pro	Glu	Lys	Thr	Ile	Ser	Tyr	Gly	Gly	Cys		
		85					90						95				
Val	Ala	Gln	Leu	Tyr	Ile	Phe	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Cys	Ile		
	100						105					110					
Leu	Leu	Ala	Ile	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro		
	115						120					125					
Leu	His	Tyr	Pro	Val	Ile	Met	Asn	His	Arg	Arg	Cys	Ile	His	Met	Ala		
	130				135					140							
Ala	Gly	Thr	Trp	Ile	Ser	Gly	Phe	Ala	Asn	Ser	Leu	Val	Gln	Ser	Thr		
145				150					155					160			
Leu	Thr	Val	Val	Ala	Pro	Arg	Cys	Gly	Gln	Arg	Val	Leu	Asp	His	Phe		
		165						170					175				
Phe	Cys	Glu	Val	Pro	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ile	Asp	Ile	Arg		
	180						185					190					
Val	Asn	Glu	Met	Glu	Leu	Asn	Val	Leu	Gly	Ala	Leu	Leu	Leu	Leu	Met		
	195					200					205						
Pro	Leu	Thr	Leu	Ile	Leu	Gly	Thr	Tyr	Val	Phe	Ile	Ala	Gln	Ala	Val		
	210				215					220							
Met	Arg	Ile	Cys	Ser	Ala	Glu	Ser	Arg	Trp	Lys	Ala	Phe	Asn	Thr	Cys		
225				230					235					240			
Ala	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Tyr	Phe	Thr	Ala	Ile	Ser		
		245						250					255				
Met	Tyr	Val	Gln	Pro	Pro	Ser	Ser	Tyr	Ser	His	Asp	Arg	Gly	Lys	Ile		
		260						265					270				

&lt;210&gt; 2070

&lt;211&gt; 356

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (5262456-1-22068-24947)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(356)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2070

```

Met Ile Asn Asp Ser His Phe Ser Gly Phe Ile Leu Leu Gly Phe Thr
 1           5           10           15
Gly Gln Pro Gln Leu Gln Met Met Ile Ser Gly Val Val Phe Phe Phe
          20           25           30
Tyr Thr Ile Ala Phe Met Gly Asn Met Ala Ile Ile Leu Leu Ser Phe
          35           40           45
Leu Asp Asp His Leu Gln Val Pro Met Tyr Phe Phe Leu Arg Asn Leu
          50           55           60
Ala Ile Leu Asp Leu Cys Tyr Thr Thr Asn Ile Val Pro Gln Met Leu
          65           70           75           80
Val Ser Ile Trp Gly Lys Asp Lys Arg Ile Thr Phe Gly Gly Cys Ala
          85           90           95
Phe Gln Leu Phe Ile Asp Val Ala Leu Tyr Ser Val Glu Cys Ile Leu
          100          105          110
Leu Ser Met Met Ser Tyr Asp Arg Leu Asn Ala Ile Cys Lys Pro Leu
          115          120          125
His His Met Thr Ile Met Asn Leu Gln Leu Cys Gln Gly Leu Val Val
          130          135          140
Ile Ser Trp Val Val Gly Val Ile Asn Cys Ile Ile Pro Ser Pro Tyr
          145          150          155          160
Ala Thr Ser Leu Pro Arg Cys Arg Asn His His Leu Asp His Phe Phe
          165          170          175
Val Cys Val Lys Cys Leu Gln Xaa Ser Arg Phe Lys Ile Ala Cys Val
          180          185          190
Asp Thr Thr Ala Met Glu Val Thr Thr Phe Ala Met Cys Leu Ile Ile
          195          200          205
Val Leu Val Pro Leu Leu Leu Ile Leu Val Ser Tyr Gly Phe Ile Ala
          210          215          220
Val Ala Val Leu Lys Ile Lys Ser Ala Ala Gly Arg Gln Lys Ala Phe
          225          230          235          240
Gly Thr Cys Ser Ser His Leu Val Val Val Ser Ile Phe Cys Gly Thr
          245          250          255
Val Thr Tyr Met Tyr Ile Gln Pro Gly Asn Ser Pro Asn Gln Asn Glu
          260          265          270
Gly Lys Leu Leu Ser Ile Phe Tyr Ser Ile Val Thr Pro Ser Leu Asn
          275          280          285
Pro Leu Ile Tyr Thr Val Arg Asn Lys Glu Phe Lys Gly Ala Met Lys
          290          295          300
Arg Leu Thr Gly Lys Glu Lys Asp Cys Met Glu Lys Arg Gly His Xaa
          305          310          315          320
Phe Phe Leu Pro Ala Ile Ser Asn Met Ala Ile Asp Leu Pro Asn Leu
          325          330          335
Lys Cys Arg Gln Phe Ile Leu Xaa Ile Asn Cys Leu His Leu Arg Xaa
          340          345          350
Arg Xaa Tyr Pro
          355

```

&lt;210&gt; 2071

&lt;211&gt; 338

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (5679453-1-2929-5456)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(338)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2071

```

Met Ile Leu Pro Ala Ser Phe Ser Xaa Gly Thr Met Glu Thr Ser Ser
 1           5           10           15

```

Val Ser Ser Gly Thr Asp Phe Ile Leu Leu Gly Phe Ser Asp Arg Pro  
 20 25 30  
 Gln Leu Glu His Ile Ile Ser Val Val Phe Ile Ile Tyr Ile Val  
 35 40 45  
 Thr Leu Val Gly Asn Thr Thr Ile Ile Leu Val Ser Tyr Leu Asp Thr  
 50 55 60  
 Gln Leu His Thr Phe Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu  
 65 70 75 80  
 Asp Leu Cys Tyr Thr Thr Ser Ile Ile Pro Gln Met Leu Ala Asn Gln  
 85 90 95  
 Trp Gly Pro Lys Lys Ser Ile Thr Tyr Gly Gly Cys Val Leu Gln Phe  
 100 105 110  
 Phe Phe Val Leu Asp Leu Gly Ala Thr Glu Cys Leu Leu Leu Ala Val  
 115 120 125  
 Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Gln Pro Leu His Tyr Thr  
 130 135 140  
 Leu Lys Cys Thr Leu Ser Phe Ala Thr Ala Trp Leu Ser Gly Leu Ala  
 145 150 155 160  
 Ser Ala Leu Ile Val Cys Ser Leu Thr Leu Lys Leu Pro Arg Cys Gly  
 165 170 175  
 His Arg Glu Val Asp Asn Phe Phe Cys Glu Met Pro Ala Leu Ile Lys  
 180 185 190  
 Met Ala Cys Val Tyr Ser Lys Val Ile Glu Ile Val Val Phe Ala Phe  
 195 200 205  
 Gly Val Val Phe Leu Phe Val Pro Leu Ser Leu Ile Leu Ile Ser Tyr  
 210 215 220  
 Gly Val Ile Thr Gln Ala Val Met Arg Ile Lys Ser Ala Thr Arg Leu  
 225 230 235 240  
 Gln Lys Ile Leu Asn Thr Cys Gly Ser His Leu Thr Val Val Ile Leu  
 245 250 255  
 Phe Tyr Gly Thr Ile Ile Tyr Ile Tyr Met Lys Pro Gln Asn Thr Ile  
 260 265 270  
 Ser Gln Asp Glu Gly Lys Phe Ser Leu Phe Tyr Thr Ile Ile Thr Pro  
 275 280 285  
 Ser Leu Asn Leu Pro Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Ser  
 290 295 300  
 Ala Leu Lys Arg Ile Leu Trp Met Lys Lys Ser Ser Ala Glu Xaa Met  
 305 310 315 320  
 Asn Xaa Met Glu Lys Ser Arg Met Xaa Ser Thr Lys Glu Ile Leu Ala  
 325 330 335  
 Phe Ile

&lt;210&gt; 2072

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (5791525-1-119325-122054)

&lt;400&gt; 2072

Met Ala Met Asp Asn Val Thr Ala Val Phe Gln Phe Leu Leu Ile Gly  
 1 5 10 15  
 Ile Ser Asn Tyr Pro Gln Trp Arg Asp Thr Phe Phe Thr Leu Val Leu  
 20 25 30  
 Ile Ile Tyr Leu Ser Thr Leu Leu Gly Asn Gly Phe Met Ile Phe Leu  
 35 40 45  
 Ile His Phe Asp Pro Asn Leu His Thr Pro Ile Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Leu Asp Leu Cys Tyr Gly Thr Ala Ser Met Pro Gln  
 65 70 75 80  
 Ala Leu Val His Cys Phe Ser Thr His Pro Tyr Leu Ser Tyr Pro Arg  
 85 90 95

Cys Leu Ala Gln Thr Ser Val Ser Leu Ala Leu Ala Thr Ala Glu Cys  
 100 105 110  
 Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Val Val Ala Ile Ser Asn  
 115 120 125  
 Pro Leu Arg Tyr Ser Val Val Met Asn Gly Pro Val Cys Val Cys Leu  
 130 135 140  
 Val Ala Thr Ser Trp Gly Thr Ser Leu Val Leu Thr Ala Met Leu Ile  
 145 150 155 160  
 Leu Ser Leu Arg Leu His Phe Cys Gly Ala Asn Val Ile Asn His Phe  
 165 170 175  
 Ala Cys Glu Ile Leu Ser Leu Ile Lys Leu Thr Cys Ser Asp Thr Ser  
 180 185 190  
 Leu Asn Glu Phe Met Ile Leu Ile Thr Ser Ile Phe Thr Leu Leu Leu  
 195 200 205  
 Pro Phe Gly Phe Val Leu Leu Ser Tyr Ile Arg Ile Ala Met Ala Ile  
 210 215 220  
 Ile Arg Ile Arg Ser Leu Gln Gly Arg Leu Lys Ala Phe Thr Thr Cys  
 225 230 235 240  
 Gly Ser His Leu Thr Val Val Thr Ile Phe Tyr Gly Ser Ala Ile Ser  
 245 250 255  
 Met Tyr Met Lys Thr Gln Ser Lys Ser Tyr Pro Asp Gln Asp Lys Phe  
 260 265 270  
 Ile Ser Val Phe Tyr Gly Ala Leu Thr Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Lys Lys Asp Val Lys Arg Ala Ile Arg Lys Val Met  
 290 295 300  
 Leu Lys Arg Thr  
 305

&lt;210&gt; 2073

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (5791525-1-456-2065)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(314)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2073

Met His Gln Gly Asn Xaa Thr Thr Val Ser Lys Phe Phe Leu Leu Gly  
 1 5 10 15  
 Ile Thr Thr Lys Pro Lys Glu Gln Gln Phe Ile Phe Met Leu Phe Leu  
 20 25 30  
 Cys Thr Tyr Leu Val Thr Met Val Arg Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Val Val Ser Asp Ala His Leu His Gly Pro Ile Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Thr Asn Val Cys Ile Thr Thr Thr Thr Val Pro Lys  
 65 70 75 80  
 Ile Leu Ala Asp Ile Gln Ser Gln Asn Ser Thr Ile Ser Phe Glu Gly  
 85 90 95  
 Cys Pro Ala Gln Met Xaa Phe Xaa Ile Phe Leu Val Asp Leu Asp Asn  
 100 105 110  
 Phe Leu Leu Val Asp Met Ala Tyr Asn Xaa Tyr Ile Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Val Val Val Leu Ser Pro Lys Asn Cys Ala Leu  
 130 135 140  
 Leu Val Val Thr Pro Trp Val Ile Ser Asn Leu Val Ser Ile Leu His  
 145 150 155 160  
 Leu Ser Leu Leu Ser His Leu Thr Phe Cys Ile Ser His Ile Phe Tyr

```

                165                170                175
Asp Leu Glu Pro Ile Leu Gly Leu Ala Cys Ser Asp Thr Gln Ile Asn
                180                185                190
Asn Leu Ile Ile Thr Ala Ile Gly Glu Val Val Ile Phe Ile Pro Phe
                195                200                205
Thr Cys His Ile Leu Val Ser Tyr Gly Leu Ile Gly Ser Thr Met Leu
                210                215                220
Gly Val Pro Ser Ala Lys Gly Lys Xaa Lys Thr Phe Ser Thr Cys Gly
225                230                235                240
Ser His Leu Ser Val Val Pro Gln Val Phe Tyr Gly Phe Ile Ile Gly
                245                250                255
Val Tyr Phe Leu Ser Phe Phe Ala Tyr Ser Ala Glu Arg Asp Glu Val
                260                265                270
Ala Ala Ile Met Tyr Thr Thr Val Thr His Leu Ile Lys Ser Phe Ile
                275                280                285
Cys Ser Leu Arg Asn Glu Asp Met Lys Gly Ala Leu Arg Arg Pro Leu
290                295                300
Ser Arg Gln Gly Phe Ser Gly Val Val Ser
305                310

```

&lt;210&gt; 2074

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (5823349-1-32238-32756)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(138)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2074

```

Leu Met Leu Leu Asp Leu Leu Ser Asp Ala Glu Val His Ala Val Ser
1                5                10                15
Ser Ser His Cys Ser Leu His Leu Thr Lys Glu Ile Phe Ser Ile Val
                20                25                30
Ser Asn Gln Ala Leu Ser Pro Glu Ser Thr Leu Gly Leu His Met His
35                40                45
Leu Cys Ala Phe Leu Thr Leu Phe Pro Leu Pro Arg Thr Pro Leu Pro
50                55                60
Ser Phe Leu Ile His Arg Asn Leu Ile His Leu Ser Ser His Ala Gln
65                70                75                80
Gln Leu Ser Phe Pro Xaa Leu Leu Xaa Lys Tyr Ser Leu Phe Asn Leu
                85                90                95
Tyr Val Ile Leu Ser Arg Ile Leu Phe Pro Leu His Pro Leu Val Tyr
100                105                110
Glu Gln Phe Lys Ser Gly Cys Tyr Gly Xaa Phe Ile Ile Lys Ile Leu
115                120                125
Asn Phe Cys Leu Leu Xaa Val Met Asn Leu
130                135

```

&lt;210&gt; 2075

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (5931513-1-1-2929)

&lt;400&gt; 2075

```

Met Asn Val Ser Glu Pro Asn Ser Ser Phe Ala Phe Val Asn Glu Phe
1                5                10                15
Ile Leu Gln Gly Phe Ser Cys Glu Trp Thr Ile Gln Ile Phe Leu Phe
20                25                30
Ser Leu Phe Thr Thr Thr Tyr Ala Leu Thr Ile Thr Gly Asn Gly Ala

```

```

      35      40      45
Ile Ala Phe Val Leu Trp Cys Asp Arg Arg Leu His Thr Pro Met Tyr
  50      55      60
Met Phe Leu Gly Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Ser Ser
  65      70      75      80
Thr Val Pro Lys Met Leu Val Asn Phe Leu Ser Glu Lys Lys Asn Ile
      85      90      95
Ser Phe Ala Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly
      100      105      110
Thr Ser Glu Cys Leu Leu Leu Thr Val Met Ala Phe Asp Gln Tyr Leu
      115      120      125
Ala Ile Cys Arg Pro Leu Leu Tyr Pro Asn Ile Met Thr Gly His Leu
      130      135      140
Tyr Ala Lys Leu Val Ile Leu Cys Trp Val Cys Gly Phe Leu Trp Phe
  145      150      155      160
Leu Ile

```

&lt;210&gt; 2076

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6087993-15-1-2211)

&lt;400&gt; 2076

```

Met Ile Gln Pro Met Ala Ser Pro Ser Asn Ser Ser Thr Val Pro Val
  1      5      10      15
Ser Glu Phe Leu Leu Thr Cys Phe Pro Asn Phe Gln Ser Trp Gln His
      20      25      30
Trp Leu Ser Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Met Gly Ala
      35      40      45
Asn Thr Thr Leu Leu Ile Thr Ile Gln Leu Glu Ala Ser Leu His Gln
      50      55      60
Pro Leu Tyr Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu
      65      70      75      80
Cys Leu Thr Val Ile Pro Lys Val Leu Ala Ile Phe Trp Tyr Asp Leu
      85      90      95
Arg Ser Ile Ser Phe Pro Ala Cys Phe Leu Gln Met Phe Ile Met Asn
      100      105      110
Ser Phe Leu Pro Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp
      115      120      125
Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr
      130      135      140
Asn Gln Phe Val Ala Lys Ala Ser Val Phe Ile Val Val Arg Asn Ala
      145      150      155      160
Leu Leu Thr Ala Pro Ile Pro Ile Leu Thr Ser Leu Leu His Tyr Cys
      165      170      175
Gly Glu Asn Val Ile Glu Asn Cys Ile Cys Ala Asn Leu Ser Val Ser
      180      185      190
Arg Leu Ser Cys Asp Asn Phe Thr Leu Asn Arg Ile Tyr Gln Phe Val
      195      200      205
Ala Gly Trp Thr Leu Leu Gly Ser Asp Leu Phe Leu Ile Phe Leu Ser
      210      215      220
Tyr Thr Phe Ile Leu Arg Ala Val Leu Arg Phe Lys Ala Glu Gly Ala
      225      230      235      240
Ala Val Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ile Leu Ile Leu
      245      250      255
Phe Phe Ser Thr Ile Leu Leu Val Val Val Leu Thr Asn Val Ala Arg
      260      265      270
Lys Lys Val Pro Met Asp Ile Leu Ile Leu Leu Asn Val Leu His His
      275      280      285
Leu Ile Pro Pro Ala Leu Asn Pro Ile Val Tyr Gly Val Arg Thr Lys

```

290 295 300  
 Glu Ile Lys Gln Gly Ile Gln Lys Leu Leu Gln Arg Gly Arg  
 305 310 315

&lt;210&gt; 2077

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6087993-21-1-3660)

&lt;400&gt; 2077

Met Leu Leu Ser Asn Ser Ser Trp Arg Leu Ser Gln Pro Ser Phe Leu  
 1 5 10 15  
 Leu Val Gly Ile Pro Gly Leu Glu Glu Ser Gln His Trp Ile Ala Leu  
 20 25 30  
 Pro Leu Gly Ile Leu Tyr Leu Leu Ala Leu Val Gly Asn Val Thr Ile  
 35 40 45  
 Leu Phe Ile Ile Trp Met Asp Pro Ser Leu His Gln Ser Met Tyr Leu  
 50 55 60  
 Phe Leu Ser Met Leu Ala Ala Ile Asp Leu Val Leu Ala Ser Ser Thr  
 65 70 75 80  
 Ala Pro Lys Ala Leu Ala Val Leu Leu Val His Ala His Glu Ile Gly  
 85 90 95  
 Tyr Ile Val Cys Leu Ile Gln Met Phe Phe Ile His Ala Phe Ser Ser  
 100 105 110  
 Met Glu Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala  
 115 120 125  
 Ile Cys His Pro Leu His His Ser Thr Ile Leu His Pro Gly Val Ile  
 130 135 140  
 Gly Arg Ile Gly Met Val Val Leu Val Arg Gly Leu Leu Leu Ile  
 145 150 155 160  
 Pro Phe Pro Ile Leu Leu Gly Thr Leu Ile Phe Cys Gln Ala Thr Ile  
 165 170 175  
 Ile Gly His Ala Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys  
 180 185 190  
 Ser Glu Thr Thr Val Asn Arg Ala Tyr Gly Leu Thr Met Ala Leu Leu  
 195 200 205  
 Val Ile Gly Leu Asp Val Leu Ala Ile Gly Val Ser Tyr Ala His Ile  
 210 215 220  
 Leu Gln Ala Val Leu Lys Val Pro Gly Ser Glu Ala Arg Leu Lys Ala  
 225 230 235 240  
 Phe Ser Thr Cys Gly Ser His Ile Cys Val Ile Leu Val Phe Tyr Val  
 245 250 255  
 Pro Gly Ile Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Pro  
 260 265 270  
 His His Val His Val Leu Leu Ala Thr Arg Tyr Leu Leu Met Pro Pro  
 275 280 285  
 Ala Leu Asn Pro Leu Val Tyr Gly Val Lys Thr Gln Gln Ile Arg Gln  
 290 295 300  
 Arg Val Leu Arg Val Phe Thr Gln Lys Asp  
 305 310

&lt;210&gt; 2078

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6087993-34-2575-6318)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(327)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2078

```

Phe Phe Ser Asn Asn Ser Val Leu Phe Pro His Thr Phe Phe Leu Ala
 1           5           10           15
Gly Ile Pro Gly Leu Thr Ala Thr His Ile Trp Ile Leu Leu Pro Phe
          20           25           30
Cys Phe Met Phe Phe Leu Ser Leu Thr Gly Asn Gly Val Leu Leu Phe
          35           40           45
Leu Ile Arg Thr Glu Cys Ser Leu Arg Gln Pro Met Phe Leu Phe Leu
          50           55           60
Ala Met Leu Ser Phe Val Asp Leu Val Leu Ser Leu Ser Thr Leu Pro
65           70           75           80
Lys Met Leu Ala Ile Phe Trp Phe Gly Ala Thr Ala Ile Ser Ser His
          85           90           95
Ser Cys Leu Ser Gln Met Phe Phe Ile His Ala Phe Ser Ala Met Glu
          100          105          110
Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Ser Val Ala Ile Cys
          115          120          125
Asn Pro Leu Arg Tyr Ala Thr Ile Leu Pro Pro Val Val Val Ala Lys
130          135          140
Ile Gly Gly Leu Val Val Leu Xaa Gly Val Gly Leu Thr Ile Ser Phe
145          150          155          160
Pro Ser Leu Ala His Arg Leu His Tyr His Gly Ser His Met Ile Ala
          165          170          175
Tyr Thr Phe Cys Glu His Met Ala Val Val Lys Leu Ala Cys Glu Ala
          180          185          190
Thr Thr Val Asp Asn Leu Tyr Ala Phe Val Val Ala Ile Phe Leu Gly
          195          200          205
Gly Gly Asp Val Val Cys Ile Ala Tyr Ser Tyr Gly Leu Ile Val Arg
210          215          220
Thr Val Met His Phe Pro Ser Pro Glu Glu Arg Ala Lys Ala Gly Ser
225          230          235          240
Thr Cys Thr Ala His Val Cys Val Ile Leu Phe Phe Tyr Gly Leu Gly
          245          250          255
Phe Leu Ser Val Val Met Gln Arg Phe Gly Ala Pro Thr Ala Ser Thr
          260          265          270
Ala Lys Val Ile Leu Ala Asn Leu Tyr Leu Leu Phe Pro Pro Ala Leu
275          280          285
Asp Pro Ile Val Tyr Gly Met Glu Thr Lys Gln Ile Xaa Glu Arg Leu
290          295          300
Leu Met Ile Leu Ser Pro Lys Gln Ile Glu Leu Thr Xaa Val Xaa Leu
305          310          315          320
Ser Pro Ala Gly Leu Gln Gly
          325

```

&lt;210&gt; 2079

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6087993-36-10518-12399)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(135)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2079

```

Lys Asp Leu Xaa Arg Arg Ser Asn Ile Asn Phe Arg Ile Glu Arg Leu
 1           5           10           15
Tyr Phe Phe Ile Xaa Gly Trp Glu Met Lys Met Gly Leu Xaa Asn Xaa
          20           25           30
Leu Leu Met Phe Cys Glu Ser Phe Xaa Xaa Xaa Lys Thr Val Leu Arg
          35           40           45

```



```

Ile Lys Gly Glu Gly Asp Met Ala Lys Ala Leu Gly Thr Cys Gly Ser
 50      55      60
His Phe Ile Leu Ile Leu Phe Phe Thr Thr Val Leu Leu Val Leu Val
65      70      75      80
Ile Thr Asn Leu Ala Arg Lys Arg Ile Pro Pro Asp Val Pro Ile Leu
      85      90      95
Leu Asn Ile Leu His His Leu Ile Pro Pro Ala Leu Asn Pro Ile Val
      100      105      110
Tyr Gly Val Arg Thr Lys Glu Ile Lys Gln Gly Ile Gln Asn Leu Leu
      115      120      125
Arg Arg Leu Xaa Lys Ile Lys
      130      135

```

&lt;210&gt; 2080

&lt;211&gt; 141

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6094601-37-1-3120)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(141)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2080

```

Met Leu Thr Cys Phe Trp Lys His Leu Xaa Tyr Leu Pro Leu Xaa Phe
 1      5      10      15
Val Asp Phe Val Leu Ser Lys Lys Lys Pro Ser Asn Xaa Ser Val Ser
      20      25      30
Ile Asn Val Phe Leu Leu Leu Thr Tyr Xaa Xaa Ser Phe Ala Leu Val
      35      40      45
Tyr Leu Cys Phe Asp Lys Leu Phe Trp Ile Cys Asn Pro Leu Ser Gly
      50      55      60
Leu Met Thr Leu Arg Arg Thr Arg Cys Ala Gly Ile Leu Gly Ala Cys
65      70      75      80
Trp Thr Tyr Ala Phe Thr Ser Thr Ile Arg Xaa Val Phe Phe Phe Phe
      85      90      95
Asn Leu Lys Asp Lys Leu Phe Phe Gln Met Ser Asn Phe Leu Ser Leu
      100      105      110
Xaa Glu Leu Met Xaa Gly Pro Phe Phe Leu Glu Asn Ser His Met Tyr
      115      120      125
Ser Tyr Thr His Lys Leu Cys Leu Leu Phe Xaa Gly Val
      130      135      140

```

&lt;210&gt; 2081

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6249440-1-23422-29767)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2081

```

Met Gly Gly Leu Lys Arg Asp Asn Ala Ser Glu Met Thr Glu Leu Ile
 1      5      10      15
Leu Val Gly Phe Ala Gln His Pro Glu Ile Gln Thr Ala Phe Phe Leu
      20      25      30
Glu Leu Leu Phe Phe Tyr Xaa Ser Gln Leu Phe Glu Asn Ile Leu Ile
      35      40      45
Val Ala Val Val Arg Xaa Asp Ser Arg Leu His Thr Pro Met Gly Phe

```

50	55	60
Phe Phe Leu Ser Thr Leu Ser Ser Leu Glu Met Cys Tyr Ser Ile Ser		
65	70	75
Trp Glu Leu Xaa Val Leu Ala Gln Cys Ile Lys Asp Phe Pro Thr Ile		80
	85	90
Ser Tyr Asn Ser Cys Ser Val Gln Met Ile Thr His Leu Phe Leu Gly		95
	100	105
Thr Ala Gln Cys Leu Leu Leu Ala Gly Met Ala Tyr Asn Arg Phe Val		110
	115	120
Glu Ile Ser Tyr Leu Leu His Tyr Thr Ile Ile Met Ser Asn Arg Val		125
	130	135
Cys Ile Gln Leu Ala Leu Gly Ile Trp Thr His Ala Phe Leu Val Ala		140
145	150	155
Val Thr Leu Ile Ile Ala Ile Pro Ala Ser Tyr Tyr Gly His Asn Val		160
	165	170
Ile Asn His Phe Thr Cys Glu Ile Gln Ala Leu Leu Lys Leu Val Cys		175
	180	185
Ser Asp Thr Leu Val Ser Leu Ile Gln Gly Leu Val Ile Ser Val Phe		190
	195	200
Thr Leu Pro Leu Pro Phe Thr Phe Ile Leu Ile Ser Xaa Phe Cys Ile		205
	210	215
Phe Val Arg Ala Val Glu Ala Arg Arg Glu Ala Phe Ser Thr Cys Gly		220
225	230	235
Ser His Leu Thr Gly Val Thr Ile Phe Tyr Gly Ala Ala Ile Cys Met		240
	245	250
Tyr Leu Lys Pro Gln Ser Lys Gly Thr Gln Glu Glu Asp Lys Val Val		255
	260	265
Ser Lys Leu Tyr Gly Ala Val Thr Pro Met Leu Asn Pro Pro Ile Tyr		270
	275	280
Ile Gln Arg Asn Lys Asp Ile Lys Gly Ala Leu Arg Lys Leu Ala Lys		285
	290	295
Gly Asn Glu Lys Ser Xaa Gln Phe Ser Leu Asn		300
305	310	315

&lt;210&gt; 2082

&lt;211&gt; 295

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6739493-1-1-1041)

&lt;400&gt; 2082

Met Tyr Ser Phe Met Ala Gly Ser Ile Phe Ile Thr Ile Phe Gly Asn	
1	5
Leu Ala Met Ile Ile Ser Ile Ser Tyr Phe Lys Gln Leu His Thr Pro	10
	15
	20
Thr Asn Phe Leu Ile Leu Ser Met Ala Ile Thr Asp Phe Leu Leu Gly	25
	30
	35
Phe Thr Ile Met Pro Tyr Ser Met Ile Arg Ser Val Glu Asn Cys Trp	40
	45
	50
Tyr Phe Gly Leu Thr Phe Cys Lys Ile Tyr Tyr Ser Phe Asp Leu Met	55
65	60
	65
Leu Ser Ile Thr Ser Ile Phe His Leu Cys Ser Val Ala Ile Asp Arg	70
	75
	80
	85
Phe Tyr Ala Ile Cys Tyr Pro Leu Leu Tyr Ser Thr Lys Ile Thr Ile	90
	95
	100
Pro Val Ile Lys Arg Leu Leu Leu Leu Cys Trp Ser Val Pro Gly Ala	105
	110
	115
Phe Ala Phe Gly Ala Val Phe Ser Glu Ala Tyr Ala Asp Gly Ile Glu	120
	125
	130
Gly Tyr Asp Ile Leu Val Ala Cys Ser Ser Ser Cys Pro Val Met Phe	135
145	140
	145
Asn Lys Leu Trp Gly Thr Thr Leu Phe Met Ala Gly Phe Phe Thr Pro	150
	155
	160

				165					170					175	
Gly	Ser	Met	Met	Val	Gly	Ile	Tyr	Gly	Lys	Ile	Phe	Ala	Val	Ser	Arg
				180				185					190		
Lys	His	Ala	His	Ala	Ile	Asn	Asn	Leu	Arg	Glu	Asn	Gln	Asn	Asn	Gln
		195					200					205			
Val	Lys	Lys	Asp	Lys	Lys	Ala	Ala	Lys	Thr	Leu	Gly	Ile	Val	Ile	Gly
		210				215					220				
Val	Phe	Leu	Leu	Cys	Trp	Phe	Pro	Cys	Phe	Phe	Thr	Ile	Leu	Leu	Asp
225				230						235					240
Pro	Phe	Leu	Asn	Phe	Ser	Thr	Pro	Val	Val	Leu	Phe	Asp	Ala	Leu	Thr
				245					250					255	
Trp	Phe	Gly	Tyr	Phe	Asn	Ser	Thr	Cys	Asn	Pro	Leu	Ile	Tyr	Gly	Phe
			260					265					270		
Phe	Tyr	Pro	Trp	Phe	Arg	Arg	Ala	Leu	Lys	Tyr	Ile	Leu	Leu	Gly	Lys
		275					280					285			
Ile	Phe	Ser	Ser	Cys	Phe	His									
		290				295									

```
<210> 2083
<211> 302
<212> PRT
<213> Homo sapien (6911343-1-10351-11487)
```

```
<220>  
<221> VARIANT  
<222> (1)...(302)  
<223> Xaa = Any Amino Acid
```

<400>	2083															
Leu	Ser	Ser	Met	Cys	Leu	Thr	Ile	Val	Met	His	Cys	Glu	Phe	Phe	Leu	
1				5					10					15		
Met	Asp	Leu	Thr	Asp	Asp	Pro	Gln	Leu	His	Pro	Thr	Phe	Ser	Ala	Leu	
			20					25					30			
Phe	Leu	Pro	Ile	Tyr	Val	Val	Met	Val	Met	Ala	Asn	Leu	Gly	Leu	Leu	
		35					40					45				
Ala	Phe	Ile	Val	Val	Ser	Pro	Gln	Phe	Leu	Thr	Pro	Met	Tyr	Phe	Phe	
		50				55					60					
Leu	Ser	Asn	Trp	Ser	Ser	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Thr	Val	
65					70					75					80	
Pro	Lys	Ile	Ser	Met	Gly	Phe	Phe	Ser	Asp	Cys	Gln	Val	Phe	Ser	Phe	
				85					90					95		
Ser	Gly	Cys	Met	Ala	Gln	Leu	Ser	Cys	Phe	Xaa	Ile	Phe	Ala	Asp	Thr	
			100					105					110			
Glu	Phe	Phe	Leu	Leu	Ala	Ser	Met	Val	Tyr	Tyr	Arg	Xaa	Glu	Ala	Val	
		115					120					125				
Cys	Asn	Pro	Leu	Leu	Tyr	His	Ile	Thr	Met	Ser	Pro	Lys	Leu	Cys	Leu	
		130				135					140					
Gln	Leu	Val	Ala	Thr	Ser	Met	Asn	Met	Val	Leu	Pro	Ser	Ser	Thr	Ile	
145					150					155					160	
Phe	His	Leu	Ile	Phe	Cys	Lys	Ser	Arg	Ala	Ile	Ile	His	Xaa	Phe	Cys	
				165					170					175		
Tyr	Phe	Ser	Pro	Pro	Pro	Arg	Leu	Xaa	Lys	Leu	Ser	Cys	Ser	Asp	Met	
			180					185					190			
Gln	Gly	Leu	Gln	Leu	Leu	Thr	Phe	Ala	Ser	Ser	Ser	Phe	Asn	Val	Ser	
		195					200					205				
Val	Ser	Arg	Thr	Ile	Phe	Leu	Val	Ser	Tyr	Leu	Ile	Met	Arg	Met	Pro	
		210				215					220					
Ser	Val	Xaa	Gly	Lys	His	Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ser	Leu	
225				230						235					240	
Cys	Tyr	Gly	Thr	Thr	Val	Phe	Leu	His	Leu	His	Leu	Ser	Leu	Lys	Cys	
				245					250					255		

Ser Pro Asp Arg Asp Met Leu Val Ser Val Leu His Ser Ala Ile Leu  
                   260                  265                  270  
 Met Leu Asn Pro Met Val Gln Ser Leu Arg Asn Lys Asp Val Lys Lys  
                   275                  280                  285  
 Thr Phe Gly Thr Ser Ser Xaa Arg Phe Thr Ile Pro Leu Leu  
                   290                  295                  300

&lt;210&gt; 2084

&lt;211&gt; 274

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6911343-1-22015-25112)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(274)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2084

Glu Arg Asn Pro Ser Val Ala Glu Lys Cys Leu Gln Gly Met Thr Asp  
   1                  5                  10                  15  
 Ser Ser His His Tyr Leu Xaa Leu Arg Leu Pro Leu Phe Arg Leu Leu  
                   20                  25                  30  
 Ile Leu Leu Tyr Thr Ile Ile Thr Ile Gly Asn Leu Gly Thr Val Ile  
                   35                  40                  45  
 Leu Ile Gly Ile Ser Leu Gly Leu Tyr Val Cys Pro Pro Arg Phe Leu  
                   50                  55                  60  
 Leu Phe Thr Phe Ser Met Leu Arg Val Leu Val Lys Cys Phe Xaa Ser  
                   65                  70                  75                  80  
 Thr Val Leu Pro Phe Ser Phe Trp Ser Leu Glu Ala Gln Ile Asn Phe  
                   85                  90                  95  
 Phe Ser Ile Leu Cys Ile Thr Glu Phe Phe Pro Leu Ala Thr Met Ala  
                   100                  105                  110  
 Tyr Asp Asp Asn Val Ala Thr Cys Glu Pro Leu Phe His Pro Phe Thr  
                   115                  120                  125  
 Ser Leu Arg Leu Asn Ser Ala Phe Val Xaa Glu Lys Leu Tyr Leu Arg  
                   130                  135                  140  
 Ala Phe Thr Ser Ala Leu Pro Ser Thr Leu Pro Phe His Leu Pro Phe  
                   145                  150                  155                  160  
 Phe Asn Ser His Leu Cys Ser Leu Gln Xaa His Tyr Phe Leu Gly Gln  
                   165                  170                  175  
 Val Val Leu Xaa Asn Met Thr Pro Asn Phe Lys Leu Pro Asp Phe Ser  
                   180                  185                  190  
 Asn Ser Asn Val Asn Leu Val Ser Leu Cys Cys Pro Thr Ile Cys Cys  
                   195                  200                  205  
 Tyr Pro Ile Ile Leu Arg Ser Leu Ser Ser His Asn Xaa Ser Glu Asn  
                   210                  215                  220  
 Lys Leu Leu Ile Ile Ile Phe Phe Gln Asn Ser Thr Xaa Leu Leu Phe  
                   225                  230                  235                  240  
 Ile Phe Cys Ser Asp Glu Asn Val Tyr Xaa Thr Ile Xaa Gly Ile Thr  
                   245                  250                  255  
 Asp Xaa Phe Ile Lys Ser Lys His Cys Val His Ile Pro Leu Met Gln  
                   260                  265                  270  
 Ile Leu

&lt;210&gt; 2085

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (6911343-1-65670-69060)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(323)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2085

Val	Glu	Asn	Ser	Pro	Met	Val	Thr	Asp	Phe	Ile	Phe	Leu	Gly	Met	Thr
1				5					10					15	
Asp	Asn	Ser	Gln	Leu	Glu	Val	Leu	Leu	Phe	Gly	Val	Phe	Leu	Ile	Ala
			20					25					30		
Tyr	Ile	Ile	Thr	Val	Leu	Glu	Asn	Leu	Gly	Leu	Val	Val	Leu	Ile	Arg
		35					40					45			
Val	Ser	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Gln
	50					55					60				
Ser	Phe	Leu	Asp	Val	Cys	Phe	Ser	Ser	Ile	Thr	Ile	Pro	Gln	Asn	Leu
65					70					75					80
Ala	His	Leu	Phe	Ser	Lys	Leu	Gln	Tyr	Val	Ser	Phe	Leu	Phe	Pro	Tyr
				85					90					95	
Thr	Xaa	Met	Ser	Leu	Phe	Val	Ile	Phe	Ala	Ser	Ala	Glu	Cys	Asn	Phe
			100					105					110		
Leu	Asn	Leu	Met	Ala	Tyr	Asp	Arg	Phe	Thr	Ala	Ile	Cys	His	Pro	Leu
		115					120					125			
Phe	Tyr	His	Ile	Thr	Met	Ser	Arg	Gly	His	Tyr	Leu	Phe	Leu	Val	Ala
	130					135					140				
Gly	Cys	Tyr	Leu	Gly	Gly	Leu	Val	Lys	Met	Val	Thr	Val	Thr	Thr	Ser
145					150					155					160
Ile	Thr	Gln	Leu	Ser	Leu	Cys	Gln	Pro	Cys	Val	Leu	Pro	Ala	Phe	Phe
			165						170					175	
Cys	Asp	Ile	Pro	Ser	Leu	Leu	Val	Leu	Val	Cys	Ser	Asp	Pro	Trp	Ile
			180					185					190		
Thr	Ser	Ser	Ile	Leu	Val	Val	Gly	Cys	Gly	Gly	Phe	Thr	Leu	Val	Thr
		195					200					205			
Ser	Val	Val	Val	Ile	Leu	Val	Ser	Tyr	Met	Ser	Ser	Leu	Met	Thr	Ile
	210					215					220				
Leu	Gly	Ile	Pro	Leu	Ala	Ser	Gly	Lys	Gln	Arg	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Ala	Val	Ser	Leu	Tyr	Tyr	Glu	Thr	Thr	Met	Tyr
			245						250					255	
Thr	Tyr	Leu	Pro	Ala	Ser	Arg	His	Gly	Ser	Gly	Ala	Gly	Asn	Gln	Ile
			260					265					270		
Val	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Glu	Glu	Val	Lys	Val	Ala	Leu	Xaa	Lys	Thr	Leu
	290				295						300				
Arg	His	Ser	Pro	Xaa	Ser	Ser	Leu	Ser	Val	Ser	Lys	Met	Gln	Asn	Ile
305				310						315					320
Leu	Xaa	Arg													

&lt;210&gt; 2086

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7024122-10-14004-16338)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(318)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2086

Met	Lys	Ser	Glu	Leu	Asn	Arg	Asn	Tyr	Ser	Glu	Val	Thr	Glu	Phe	Ile
1				5					10					15	

```

Leu Leu Gly Phe Arg Thr Ser Pro Glu Ala Gln Ile Leu Leu Phe Phe
      20      25      30
Leu Phe Leu Leu Ile Tyr Met Val Ile Val Leu Arg Asn Leu Ser Met
      35      40      45
Leu Val Val Ile Glu Ile Asp Ser Arg Leu His Thr Pro Val Tyr Phe
      50      55      60
Phe Leu Arg Asn Leu Ser Tyr Leu Asp Leu Arg Tyr Ser Thr Val Ile
      65      70      75      80
Ala Pro Lys Leu Thr Thr Leu Phe Ser Lys Glu Lys Lys Ile Ser Tyr
      85      90      95
Asn Gly Xaa Ala Thr Gln Leu Phe Phe Phe Ala Leu Phe Val Gly Thr
      100      105      110
Glu Gly Phe Phe Leu Asp Met Met Ala Tyr Asp Arg Phe Ser Ala Ile
      115      120      125
Cys Ser Pro Phe Phe Tyr Thr Val Cys Met Ser Gln Gln Ala Cys Val
      130      135      140
Cys Leu Val Val Gly Ser Ser Ile Cys Gly Cys Ile Asn Ser Met Ile
      145      150      155      160
Gln Thr Gly Phe Thr Phe Ser Leu His Phe Cys Gly Glu Asn Arg Leu
      165      170      175
Glu His Phe Phe Cys Asp Val Ser Val Met Ile Lys Ile Ser Cys Ile
      180      185      190
Asp Ile Leu Val Asn Glu Val Val Leu Phe Ile Leu Ser Ala Leu Ile
      195      200      205
Thr Thr Thr Thr Thr Val Ile Leu Ala Ser Tyr Val His Ile Leu Ser
      210      215      220
Thr Val Leu Lys Ile Leu Ser Thr His Gly Arg Arg Lys Thr Phe Ser
      225      230      235      240
Thr Cys Ser Ser His Ile Thr Val Val Ser Leu Phe Tyr Gly Thr Val
      245      250      255
Phe Phe Met Tyr Ala Gln Pro Gly Ala Ile Pro Lys Ser Lys Val Ile
      260      265      270
Val Val Phe Xaa Thr Leu Val Ile Pro Met Leu Asn Thr Leu Ile Tyr
      275      280      285
Ser Leu Arg Asn Lys Val Gln Asn Ala Leu Lys Arg Tyr Ile Asp Lys
      290      295      300
Lys Asn Ile Phe His Trp Pro Leu Ala Ile Tyr Lys Thr Ile
      305      310      315

```

&lt;210&gt; 2087

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7024122-5-2648-5354)

&lt;400&gt; 2087

```

Met Phe Ser Ser Glu Pro Thr Ile Asp Gly Asn Gln Ser Leu Cys Ala
  1      5      10      15
Lys Phe Thr Phe Val Ala Phe Ser Ser Ile Glu Glu Leu Gln Leu Val
      20      25      30
Leu Phe Ile Val Phe Leu Ile Ile Tyr Leu Cys Thr Ile Gly Gly Asn
      35      40      45
Ile Ile Ile Ile Ser Leu Ile Trp Ile Thr Pro Ala Leu His Thr Pro
      50      55      60
Met Tyr Phe Phe Leu Val Asn Leu Ser Phe Leu Glu Met Cys Tyr Thr
      65      70      75      80
Thr Ser Val Val Pro Leu Leu Val His Leu Leu Val Glu Thr Lys Thr
      85      90      95
Ile Ser Val Gly Gly Cys Ala Thr Gln Met Tyr Ile Phe Ala Ile Leu
      100      105      110
Gly Leu Thr Glu Cys Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe
      115      120      125

```

```

Val Ala Ile Cys Tyr Pro Leu His Tyr Thr Leu Phe Met Gly Pro Arg
 130          135          140
Val Cys Leu Lys Leu Ala Ala Ser Trp Phe Thr Gly Val Val Val
145          150          155          160
Glu Ser Ala Gln Ile Thr Leu Ile Phe Thr Leu Pro Phe Cys Gly Thr
          165          170          175
Gly Lys Ile Pro Thr Leu Phe Cys Asp Ile Met Pro Val Leu Lys Leu
          180          185          190
Ala Cys Ile Asp Thr Ser Gln Ile Glu Ile Val Met Phe Ser Leu Ser
          195          200          205
Val Leu Phe Ile Val Ser Pro Cys Phe Leu Ile Leu Cys Ser His Met
          210          215          220
His Ile Pro Val Thr Ile Leu Arg Ile Pro Ser Ala Ala Gly Arg His
225          230          235          240
Lys Ala Phe Ser Thr Cys Ser Ser His Ile Leu Val Val Ser Leu Phe
          245          250          255
Tyr Gly Thr Ala Leu Phe Thr Tyr Leu Gln Pro Lys Thr Ala His Thr
          260          265          270
Pro Glu Thr Asp Lys Ala Thr Ala Leu Met Tyr Thr Met Val Thr Pro
          275          280          285
Ala Leu Asn Pro Val Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu
          290          295          300
Ala Phe Gln Arg Ile Thr Gln Arg Asn Ser Leu Arg Gln Thr
305          310          315

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&lt;210&gt; 2088

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7024122-6-11866-14009)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(317)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2088

```

Met Gly Asp Lys Gly Thr Gly Asn His Ser Asp Val Thr Asp Phe Ile
 1          5          10          15
Leu Glu Gly Phe Arg Val Arg Pro Glu Phe Tyr Ile Leu Leu Phe Phe
          20          25          30
Leu Phe Leu Leu Ile Tyr Ser Met Val Leu Leu Gly Asn Ile Ser Val
          35          40          45
Met Thr Ile Ile Val Thr Asp Ser Gln Leu Asn Thr Pro Met Tyr Phe
          50          55          60
Phe Leu Gly Asn Leu Ser Phe Ile Asp Val Ser Tyr Ser Thr Val Ile
          65          70          75          80
Ala Pro Lys Ala Met Ala His Phe Leu Ser Glu Lys Lys Thr Val Ser
          85          90          95
Phe Ala Gly Cys Val Ala Gln Leu Phe Leu Phe Ala Leu Phe Ile Val
          100          105          110
Thr Glu Gly Phe Val Leu Ala Ala Met Ala Tyr Asp Arg Phe Ser Ala
          115          120          125
Ile Cys Asn Pro Leu Leu His Ser Val His Met Ser Arg Arg Leu Cys
          130          135          140
Thr Gln Leu Val Ala Gly Ser Tyr Phe Cys Gly Trp Ala Ser Ser Ile
          145          150          155          160
Leu Gln Val Ser Val Thr Phe Ser Val Ser Phe Cys Ala Ser Arg Val
          165          170          175
Ile Ala His Phe Tyr Cys Asp Ser Tyr Gln Ile Glu Lys Ile Ser Cys
          180          185          190
Ser Asn Leu Phe Val Asn Lys Met Val Ser Leu Ser Leu Ser Val Ile

```

```

      195              200              205
Ile Ile Leu Pro Thr Ile Val Val Ile Ile Val Ser Tyr Leu Tyr Ile
  210              215              220
Val Ser Ser Val Leu Lys Ile Pro Ser Ser Glu Gly Arg Lys Lys Asp
  225              230              235
Phe Ser Thr Cys Ser Ser His Arg Gly Val Val Ser Leu Leu Xaa Gly
      245              250              255
Thr Val Ser Phe Val Tyr Leu Thr Pro Pro Ser Asn Pro Glu Leu Arg
      260              265              270
Lys Val Ala Ser Val Phe Tyr Ile Cys Val Thr Pro Met Leu Asn Pro
      275              280              285
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Arg Lys
      290              295              300
Ile Leu Cys Asn Lys Lys Ala Leu Ser Xaa Phe Tyr Phe
  305              310              315

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&lt;210&gt; 2089

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7107785-12-32121-33524)

&lt;400&gt; 2089

```

Met Ser Pro Asp Gly Asn His Ser Ser Asp Pro Thr Glu Phe Val Leu
  1              5              10              15
Ala Gly Leu Pro Asn Leu Asn Ser Ala Arg Val Glu Leu Phe Ser Val
      20              25              30
Phe Leu Leu Val Tyr Leu Leu Asn Leu Thr Gly Asn Val Leu Ile Val
      35              40              45
Gly Val Val Arg Ala Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe
  50              55              60
Leu Gly Asn Leu Ser Cys Leu Glu Ile Leu Leu Thr Ser Val Ile Ile
  65              70              75              80
Pro Lys Met Leu Ser Asn Phe Leu Ser Arg Gln His Thr Ile Ser Phe
      85              90              95
Ala Ala Cys Ile Thr Gln Phe Tyr Phe Tyr Phe Phe Leu Gly Ala Ser
      100              105              110
Glu Phe Leu Leu Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Ala Ile
      115              120              125
Cys His Pro Leu Arg Tyr Pro Leu Leu Met Ser Gly Ala Val Cys Phe
      130              135              140
Arg Val Ala Leu Ala Cys Trp Val Gly Gly Leu Val Pro Val Leu Gly
      145              150              155              160
Pro Thr Val Ala Val Ala Leu Leu Pro Phe Cys Lys Gln Gly Ala Val
      165              170              175
Val Gln His Phe Phe Cys Asp Ser Gly Pro Leu Leu Arg Leu Ala Cys
      180              185              190
Thr Asn Thr Lys Lys Leu Glu Glu Thr Asp Phe Val Leu Ala Ser Leu
      195              200              205
Val Ile Val Ser Ser Leu Leu Ile Thr Ala Val Ser Tyr Gly Leu Ile
      210              215              220
Val Leu Ala Val Leu Ser Ile Pro Ser Ala Ser Gly Arg Gln Lys Ala
      225              230              235              240
Phe Ser Thr Cys Thr Ser His Leu Ile Val Val Thr Leu Phe Tyr Gly
      245              250              255
Ser Ala Ile Phe Leu Tyr Val Arg Pro Ser Gln Ser Gly Ser Val Asp
      260              265              270
Thr Asn Trp Ala Val Thr Val Ile Thr Thr Phe Val Thr Pro Leu Leu
      275              280              285
Asn Pro Phe Ile Tyr Ala Leu Arg Asn Glu Gln Val Lys Glu Ala Leu
      290              295              300
Lys Asp Met Phe Arg Lys Val Ala Gly Val

```



305

310

315

<210> 2090  
 <211> 141  
 <212> PRT  
 <213> Homo sapien (7107785-6-1204-2472)

<220>  
 <221> VARIANT  
 <222> (1)...(141)  
 <223> Xaa = Any Amino Acid

<400> 2090  
 Arg Asn Ile Arg Ile Ser Leu Pro Ile Tyr Phe Leu Ser Val Xaa Glu  
 1 5 10 15  
 Glu Arg Phe Gly Arg Glu Glu Phe Leu Arg Val Trp Thr Tyr Xaa Leu  
 20 25 30  
 Ile Ser Met Arg Asn Cys Phe Leu Arg Gly Cys Leu Met Tyr Xaa Met  
 35 40 45  
 Ile Phe Ser Trp Ser Cys Thr Glu Tyr Val Val His Met Phe Phe Ser  
 50 55 60  
 Leu Leu Asn Ser Gly Ile Ser Thr Glu Cys Gln Ile Ser Tyr Gln Gln  
 65 70 75 80  
 Asn Lys Asp Ile Ala Ile Phe Phe Leu His Asn Leu Xaa Xaa Lys Glu  
 85 90 95  
 Asn Phe Glu Ile Phe Leu Tyr Glu Asp Tyr Cys Ser His Ile Arg Asp  
 100 105 110  
 Leu Thr Lys Ile Ser Leu Gly Glu Ala Gly Xaa Asn Tyr Xaa Gly Lys  
 115 120 125  
 Ser Thr Thr Ile Glu Phe Leu Phe Leu Ala Leu Leu Phe  
 130 135 140

<210> 2091  
 <211> 202  
 <212> PRT  
 <213> Homo sapien (7134787-10-3417-6169)

<220>  
 <221> VARIANT  
 <222> (1)...(202)  
 <223> Xaa = Any Amino Acid

<400> 2091  
 Ile Phe Ala Ile Leu Thr Thr Ile Asp Cys Cys Val Phe Val Trp Glu  
 1 5 10 15  
 Phe Leu Glu Cys Thr Val Phe Val Asn Lys Arg Ala Cys Ala Gln Leu  
 20 25 30  
 Ala Cys Gly Ala Phe Cys Ile Gly Leu Ile Met Thr Val Val Xaa Ile  
 35 40 45  
 Thr Thr Val Ser Gln Arg Tyr Lys Arg Ser Thr Tyr Ala Ile Val Asp  
 50 55 60  
 Cys Phe Leu Phe Asp Thr Leu Leu Val Met Lys Leu Ser Cys Ile Asp  
 65 70 75 80  
 Asn Thr Ile Tyr Glu Ile Ile Gln Tyr Phe Ile His His Thr Cys Val  
 85 90 95  
 Gln Val Ser Met Gly Leu Val Cys Ile Ser Tyr Ile Asp Ile Pro Val  
 100 105 110  
 Thr Ser Ile Val Leu Arg Ile Ser Xaa Ser Glu Val Phe Ala Thr Cys  
 115 120 125  
 Val Pro Gln Pro Pro Pro His His Gly His Cys Leu Tyr Val Cys Ala  
 130 135 140

Cys Thr Ala Tyr Leu Lys His Lys Pro Met Asn Ser Ile Glu Lys Gly  
 145 150 155 160  
 Leu Leu Xaa Glu Thr Tyr Ile Ile Ile Ile His Ser Ala Ser Gly Pro  
 165 170 175  
 Val Val Tyr Thr Leu Arg Tyr Met Glu Ala Lys Asp Thr Met Tyr Arg  
 180 185 190  
 Ala Val Asp Arg Asn Ile Ser Xaa Gln Ile  
 195 200

&lt;210&gt; 2092

&lt;211&gt; 276

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7134787-7-358-5219)

&lt;400&gt; 2092

Met Arg Arg Lys Asn Leu Thr Glu Val Thr Glu Phe Val Phe Leu Gly  
 1 5 10 15  
 Phe Ser Arg Phe His Lys His His Ile Thr Leu Phe Val Val Phe Leu  
 20 25 30  
 Ile Leu Tyr Thr Leu Thr Val Ala Gly Asn Ala Ile Ile Met Thr Ile  
 35 40 45  
 Ile Cys Ile Asp Arg His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Met Leu Ala Ser Ser Lys Thr Val Tyr Thr Leu Phe Ile Ile Pro Gln  
 65 70 75 80  
 Met Leu Ser Ser Phe Val Thr Gln Thr Gln Pro Ile Ser Leu Ala Gly  
 85 90 95  
 Cys Thr Thr Gln Thr Phe Phe Phe Val Thr Leu Ala Ile Asn Asn Cys  
 100 105 110  
 Phe Leu Leu Thr Val Met Gly Tyr Asp His Tyr Met Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Arg Tyr Arg Val Ile Thr Ser Lys Lys Val Cys Val Gln Leu  
 130 135 140  
 Val Cys Gly Ala Phe Ser Ile Gly Leu Ala Met Ala Ala Val Gln Val  
 145 150 155 160  
 Thr Ser Ile Phe Thr Leu Pro Phe Cys His Thr Val Val Gly His Phe  
 165 170 175  
 Phe Cys Asp Ile Leu Pro Val Met Lys Leu Ser Cys Ile Asn Thr Thr  
 180 185 190  
 Ile Asn Glu Ile Ile Asn Phe Val Val Arg Leu Phe Val Ile Leu Val  
 195 200 205  
 Pro Met Gly Leu Val Phe Ile Ser Tyr Val Leu Ile Ile Ser Thr Val  
 210 215 220  
 Leu Lys Ile Ala Ser Ala Glu Gly Trp Lys Lys Thr Phe Ala Thr Cys  
 225 230 235 240  
 Ala Phe His Leu Thr Val Val Ile Val His Tyr Gly Cys Ala Ser Ile  
 245 250 255  
 Ala Tyr Leu Met Pro Lys Ser Glu Asn Ser Ile Glu Gln Asp Leu Leu  
 260 265 270  
 Leu Ser Val Thr  
 275

&lt;210&gt; 2093

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7139676-7-1545-4565)

&lt;400&gt; 2093

Met Gln Leu Asn Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Gln Asp Pro Phe Trp Lys Lys Ile Val Phe Val Ile Phe Leu Arg Leu

```

      20      25      30
Tyr Leu Gly Thr Leu Leu Gly Asn Leu Leu Ile Ile Ile Ser Val Lys
      35      40      45
Ala Ser Gln Ala Leu Lys Asn Pro Met Phe Phe Phe Leu Phe Tyr Leu
      50      55      60
Ser Leu Ser Asp Thr Cys Leu Ser Thr Ser Ile Ala Pro Arg Met Ile
      65      70      75      80
Val Asp Ala Leu Leu Lys Lys Thr Thr Ile Ser Phe Ser Glu Cys Met
      85      90      95
Ile Gln Val Phe Ser Ser His Val Phe Gly Cys Leu Glu Ile Phe Ile
      100      105      110
Leu Ile Leu Thr Ala Val Asp Arg Tyr Val Asp Ile Cys Lys Pro Leu
      115      120      125
His Tyr Met Thr Ile Ile Ser Gln Trp Val Cys Gly Val Leu Met Ala
      130      135      140
Val Ala Trp Val Gly Ser Cys Val His Ser Leu Val Gln Ile Phe Leu
      145      150      155      160
Ala Leu Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Cys Phe
      165      170      175
Cys Asp Leu Gln Pro Leu Leu Lys Gln Ala Cys Ser Glu Thr Tyr Val
      180      185      190
Val Asn Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ala Val Ser
      195      200      205
Tyr Val Met Leu Ile Phe Ser Tyr Val Ile Phe Leu His Ser Leu Arg
      210      215      220
Asn His Ser Ala Glu Val Ile Lys Lys Ala Leu Ser Thr Cys Val Ser
      225      230      235      240
His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Met Tyr
      245      250      255
Thr Cys Pro Ala Thr Val Phe Pro Met Asp Lys Met Ile Ala Val Phe
      260      265      270
Tyr Thr Val Gly Thr Ser Phe Leu Asn Pro Val Ile Tyr Thr Leu Lys
      275      280      285
Asn Thr Glu Val Lys Ser Ala Met Arg Lys Leu Trp Ser Lys Lys Leu
      290      295      300
Ile Thr Asp Asp Lys Arg
      305      310

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&lt;210&gt; 2094

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7139676-9-1-2285)

&lt;400&gt; 2094

```

Met Glu Lys Ser Asn Asn Ser Thr Leu Phe Ile Leu Leu Gly Phe Ser
      1      5      10      15
Gln Asn Lys Asn Ile Glu Val Leu Cys Phe Val Leu Phe Leu Phe Cys
      20      25      30
Tyr Ile Ala Ile Trp Met Gly Asn Leu Leu Ile Met Ile Ser Ile Thr
      35      40      45
Cys Thr Gln Leu Ile His Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu
      50      55      60
Ser Leu Ser Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Leu Met
      65      70      75      80
Val Asp Leu Leu Ala Glu Arg Lys Thr Ile Ser Tyr Asn Asn Cys Met
      85      90      95
Ile Gln Leu Phe Thr Thr His Phe Phe Gly Gly Ile Glu Ile Phe Ile
      100      105      110
Leu Thr Gly Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
      115      120      125
His Tyr Thr Ile Ile Met Ser Arg Gln Lys Cys Asn Thr Ile Ile Ile

```

130	135	140
Val Cys Trp Thr Gly	Gly Phe Ile His Ser	Ala Ser Gln Phe Leu Leu
145	150	155
Thr Ile Phe Val Pro	Phe Cys Gly Pro Asn	Glu Ile Asp His Tyr Phe
165	170	175
Cys Asp Val Tyr Pro	Leu Leu Lys Leu Ala	Cys Ser Asn Ile His Met
180	185	190
Ile Gly Leu Leu Val	Ile Ala Asn Ser Gly	Leu Ile Ala Leu Val Thr
195	200	205
Phe Val Val Leu Leu	Leu Ser Tyr Val Phe	Ile Leu Tyr Thr Ile Arg
210	215	220
Ala Tyr Ser Ala Glu	Arg Arg Ser Lys Ala	Leu Ala Thr Cys Ser Ser
225	230	235
His Val Ile Val Val	Val Leu Phe Phe Ala	Pro Ala Leu Phe Ile Tyr
245	250	255
Ile Arg Pro Val Thr	Thr Phe Ser Glu Asp	Lys Val Phe Ala Leu Phe
260	265	270
Tyr Thr Ile Ala Pro	Met Phe Asn Pro Leu	Ile Tyr Thr Leu Arg
275	280	285
Asn Thr Glu Met Lys	Asn Ala Met Arg Lys	Val Trp Cys Cys Gln Ile
290	295	300
Leu Leu Lys Arg Asn	Gln Leu	
305	310	

&lt;210&gt; 2095

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7144617-1-1-995)

&lt;400&gt; 2095

Met Ala Pro Thr Asn	Leu Thr Ser Ala	Pro Val Phe Leu Leu Leu Gly
1	5	10
Leu Val Thr Glu Gln	Thr Asp Ala His	Pro Leu Leu Phe Leu Leu Cys
20	25	30
Leu Gly Ile Tyr Leu	Leu Asn Ala Leu Ser	Asn Leu Ser Met Val Ala
35	40	45
Leu Val Arg Ser Asp	Gly Ala Leu Arg Ser	Pro Met Tyr Tyr Phe Leu
50	55	60
Gly His Leu Ser Leu	Val Asp Val Cys Phe	Thr Thr Val Thr Val Pro
65	70	75
Arg Leu Leu Ala Gly	Leu Leu His Pro Gly	Gln Ala Ile Ser Phe Gln
85	90	95
Ala Cys Phe Ala Glu	Met Tyr Phe Phe Val	Ala Leu Gly Ile Thr Glu
100	105	110
Ser Tyr Leu Pro Ala	Ala Met Ser Tyr Asp	Arg Ala Thr Ala Ala Cys
115	120	125
Arg Pro Leu Arg Tyr	Gly Ala Leu Val Thr	His Gly Arg Cys Ala Ser
130	135	140
Leu Val Arg Ala Ser	Trp Ala Val Thr His	Leu His Ser Leu Leu His
145	150	155
Thr Leu Leu Leu Ser	Ala Leu Ser Tyr Pro	Tyr Pro Thr Pro Val Arg
165	170	175
Pro Phe Phe Cys Asp	Met Thr Val Met Leu	Ser Leu Ala Thr Ser Asp
180	185	190
Thr Ser Ala Ala Glu	Thr Ala Ile Phe Ser	Glu Gly Leu Ala Val Val
195	200	205
Leu Ala Pro Leu Leu	Leu Val Phe Leu Ser	Tyr Ala Arg Ile Leu Val
210	215	220
Ala Val Leu Gly Leu	Pro Arg Pro Arg Arg	Ala Phe Ser Thr Cys Gly
225	230	235
Ala His Leu Val Ala	Val Ala Val Ala Val	Ala Leu Phe Phe Gly Ser

			245						250						255		
Val	Leu	Ser	Val	Tyr	Phe	Pro	Pro	Ser	Ser	Ala	Tyr	Ser	Ala	Arg	Tyr		
			260						265						270		
Asp	Arg	Leu	Ala	Ser	Val	Val	Tyr	Ala	Val	Ile	Thr	Pro	Thr	Leu	Asn		
			275						280						285		
Pro	Phe	Ile	Asn	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu	Lys		
			290						295						300		
Arg	Gly	Leu	Arg	Trp	Arg	Ala	Ala	Pro	Gln	Glu	Ala	Trp	Arg	Ala			
			305						310						315		

<210> 2096

<211> 316

<212> PRT

<213> Homo sapien (7144637-1-1-993)

**<220>**

## <221> VARIANT

 $\langle 222 \rangle \quad (1) \dots (316)$ 

<223> Xaa = Any Amino Acid

**<400> 2096**

Leu 1	Leu	Glu	Gly	Gly 5	Asn	Gln	Thr	Ser	Thr 10	Phe	Glu	Phe	Leu	Leu 15	Trp
Gly	Leu	Ser	Asp 20	Gln	Pro	Gln	Gln	Gln 25	His	Ile	Phe	Phe	Leu 30	Leu	Phe
Leu	Trp	Met 35	Tyr	Val	Val	Thr	Val 40	Ala	Gly	Asn	Leu	Leu 45	Ile	Val	Leu
Ala	Ile	Gly 50	Thr	Asp	Thr	His 55	Leu	His	Thr	Pro	Met 60	Tyr	Phe	Phe	Leu
Ala 65	Ser	Leu	Ser	Cys 70	Ala	Asp	Ile	Phe	Ser	Thr 75	Ser	Thr	Thr	Val	Pro 80
Lys	Ala	Leu	Val	Asn 85	Ile	Gln	Thr	Gln	Ser 90	Arg	Ser	Ile	Ser	Tyr 95	Ala
Gly	Cys	Leu	Ala 100	Gln	Leu	Tyr	Phe	Phe 105	Leu	Thr	Phe	Gly	Asp 110	Met	Asp
Ile	Phe	Leu 115	Pro	Ala	Thr	Met	Ala 120	Tyr	Asp	Arg	Tyr	Val 125	Ala	Ile	Cys
His	Leu 130	Leu	His	Tyr	Met	Met 135	Ile	Met	Ser	Leu	His 140	Arg	Cys	Ala	Phe
Leu 145	Val	Thr	Ala	Cys 150	Trp	Thr	Leu	Thr	Ser	Leu	Leu 155	Ala	Met	Thr	Arg 160
Thr	Phe	Leu	Ile 165	Phe	Arg	Leu	Ser	Leu 170	Cys	Ser	Xaa	Ile	Leu	Pro 175	Gly
Phe	Phe	Cys 180	Asp	Leu	Gly	Pro	Leu	Met 185	Lys	Val	Ser	Cys	Ser	Asp 190	Ala
Gln	Val	Asn 195	Glu	Leu	Val	Leu	Leu 200	Phe	Leu	Gly	Gly	Ala 205	Val	Ile	Leu
Ile	Pro 210	Phe	Met	Leu	Ile	Leu 215	Val	Ser	Tyr	Ile	Arg 220	Ile	Val	Ser	Ala
Ile 225	Leu	Arg	Ala 230	Pro	Ser	Ala 235	Gln	Gly	Arg	Arg	Lys 240	Ala	Phe	Ser	Thr 245
Cys	Asp	Ser	His 245	Leu	Val	Val	Val	Ala 250	Leu	Phe	Phe	Gly	Thr	Val 255	Ile
Arg	Ala	Tyr 260	Leu	Cys	Pro	Ser	Ser	Ser 265	Ser	Ser	Asn	Ser	Val	Lys 270	Glu
Asp	Thr 275	Ala	Ala	Ala	Val	Met	Tyr 280	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn
Pro	Phe 290	Ile	Tyr	Ser	Met	Arg 295	Asn	Lys	Asp	Met	Lys 300	Ala	Ala	Val	Val
Arg 305	Leu	Leu	Lys	Gly 310	Arg	Val	Ser	Phe	Ser	Gln	Gly 315				

<210> 2097  
 <211> 247  
 <212> PRT  
 <213> Homo sapien (7144976-1-1-1194)

<220>  
 <221> VARIANT  
 <222> (1)...(247)  
 <223> Xaa = Any Amino Acid

<400> 2097  
 Met Gly Asn Ile Asn Ile Ser Leu Glu Asn Tyr Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Asn Xaa Pro Pro Leu Glu Ile Val Ile Phe Val Val Leu Leu  
 20 25 30  
 Ile Phe Cys Phe Met Thr Leu Ile Gly Lys Leu Phe Ser Ile Ile Leu  
 35 40 45  
 Ser Tyr Leu Asp Ser His Pro His Thr Pro Arg Tyr Leu Phe Ser Phe  
 50 55 60  
 Leu Asp Phe Cys Tyr Thr Ile Ser Ser Ile Phe Xaa Leu Gln Tyr Asn  
 65 70 75 80  
 Leu Trp Gly Pro Gln Lys Asn Ile Ser Tyr Ala Ser Gly Met Ile Gln  
 85 90 95  
 Ile Tyr Phe Val Leu Thr Leu Gly Thr Met Asp Cys Ala Leu Leu Val  
 100 105 110  
 Val Met Ser Arg Thr Val Tyr Ala Ala Gly His Arg His Leu Pro Tyr  
 115 120 125  
 Thr Val Val Met Ala Val Ala Phe Trp Val Ser Ser Phe Thr Asn Ser  
 130 135 140  
 Ala Phe Asp Ser Phe Phe Thr Phe Trp Val Thr Leu Cys Gly His His  
 145 150 155 160  
 Tyr Tyr Ala Tyr Ile Phe Ile Phe Thr Ser Leu Leu Val Xaa Arg Trp  
 165 170 175  
 Phe Ile Asn Arg Lys Lys Gln Ser Val Phe Ser Leu Asn His Ala Ala  
 180 185 190  
 Leu Leu Thr Leu Ser Phe Pro Leu Xaa Asn Asp Cys Phe Gln Glu Ile  
 195 200 205  
 Glu Lys Asn Met Leu Arg Lys His Ser Ile Gly Glu Cys Xaa Lys His  
 210 215 220  
 Val Met Leu Val Gln Leu Asn Gln Val Ser Lys Thr Cys Ile Phe Met  
 225 230 235 240  
 Arg Pro Ile Leu Gly Asn Ser  
 245

<210> 2098  
 <211> 329  
 <212> PRT  
 <213> Homo sapien (7145001-12-25597-26388)

<220>  
 <221> VARIANT  
 <222> (1)...(329)  
 <223> Xaa = Any Amino Acid

<400> 2098  
 Lys Ser Met Lys Lys Met Asn Asn Val Ile Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Thr His Asn Pro Glu Leu Gln Lys Phe Leu Phe Val Met Phe Leu  
 20 25 30  
 Ile Thr Tyr Leu Ile Thr Leu Ala Gly Asn Leu Phe Ile Ser Val Ile

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      35      40      45
Ile Phe Ile Ser Pro Ala Leu Gly Ser Pro Met Tyr Ser Phe Pro Ser
  50      55      60
Tyr Leu Phe Ile Ile Asp Ile Phe Cys Ser Ser Ile Ala Pro Lys
  65      70      75      80
Met Asn Phe Asp Leu Ile Ser Glu Lys Asn Thr Ile Ser Phe Asn Gly
      85      90      95
Cys Met Thr Gln Leu Phe Thr Glu His Phe Phe Thr Glu His Phe Phe
      100      105      110
Glu Ala Ala Glu Ile Ile Leu Leu Ser Val Met Ala Tyr Asp His Tyr
      115      120      125
Val Ala Ile Arg Lys Pro Leu His Tyr Ala Thr Ile Met Ser Gln Pro
      130      135      140
Met Cys Gly Phe Leu Met Val Val Ala Gly Ile Leu Gly Phe Val His
      145      150      155      160
Gly Gly Ile Gln Thr Leu Phe Ile Ala Gln Leu Pro Phe Cys Gly Pro
      165      170      175
Asn Val Ile Asn His Phe Met Cys Asp Leu Val Pro Leu Leu Glu Leu
      180      185      190
Ala Cys Thr Asp Thr His Thr Leu Gly Pro Leu Ile Ala Ala Asn Ser
      195      200      205
Gly Ser Leu Cys Phe Leu Ile Phe Ser Met Leu Val Ala Ser Tyr Val
      210      215      220
Ile Ile Leu Cys Phe Leu Arg Thr His Ser Ser Glu Gly Arg Arg Lys
      225      230      235      240
Ala Leu Ser Ser Cys Ala Ser His Ile Phe Ile Val Ile Leu Phe Phe
      245      250      255
Val Pro Phe Ser Tyr Leu Tyr Leu Arg Pro Ile His Ser Phe Pro Thr
      260      265      270
Asp Lys Ala Val Thr Val Phe Cys Thr Leu Phe Thr Pro Met Leu Asn
      275      280      285
Pro Leu Ile Tyr Thr Leu Lys Asn Lys Glu Val Lys Asn Val Ile Lys
      290      295      300
Lys Leu Trp Lys Gln Ile Met Thr Thr Asp Asp Lys Xaa Val Leu Xaa
      305      310      315      320
His Lys His Leu Gly Lys Asn Ile Trp
      325

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&lt;210&gt; 2099

&lt;211&gt; 264

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7145001-12-45102-50811)

&lt;400&gt; 2099

```

Met Val Asp Asn Leu Ile Ile Val Val Thr Ile Thr Thr Ser Pro Ala
  1      5      10      15
Leu Asp Ser Pro Val Tyr Phe Phe Leu Ser Phe Phe Ser Phe Ile Asp
      20      25      30
Gly Cys Ser Ser Ser Thr Met Ala Pro Lys Met Ile Phe Asp Leu Leu
      35      40      45
Thr Glu Lys Lys Thr Ile Ser Phe Ser Gly Cys Met Thr Gln Leu Phe
      50      55      60
Val Glu His Phe Phe Gly Gly Val Glu Ile Ile Leu Leu Val Val Met
      65      70      75      80
Ala Tyr Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu Tyr Tyr Leu Ile
      85      90      95
Thr Met Asn Arg Gln Val Cys Gly Leu Leu Val Ala Met Ala Trp Val
      100      105      110
Gly Gly Phe Leu His Ala Leu Ile Gln Met Leu Leu Ile Val Trp Leu
      115      120      125
Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Ile Cys Asp Leu Phe

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      130              135              140
Pro Leu Leu Lys Leu Ser Cys Thr Asp Thr His Val Phe Gly Leu Phe
145              150              155              160
Val Ala Ala Asn Ser Gly Leu Met Cys Met Leu Ile Phe Ser Ile Leu
      165              170
Ile Thr Ser Tyr Val Leu Ile Leu Cys Ser Gln Arg Lys Ala Leu Ser
      180              185              190
Thr Cys Ala Phe His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys
      195              200              205
Ile Leu Val Tyr Leu Arg Pro Met Ile Thr Phe Pro Ile Asp Lys Ala
      210              215              220
Val Ser Val Phe Tyr Thr Val Val Thr Pro Met Leu Asn Pro Leu Ile
225              230              235              240
Tyr Thr Leu Arg Asn Thr Glu Val Lys Asn Ala Met Lys Gln Leu Trp
      245              250              255
Ser Gln Ile Ile Trp Gly Asn Asn
      260

```

&lt;210&gt; 2100

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7145001-8-11112-14684)

&lt;400&gt; 2100

```

Met Gly Ala Lys Asn Asn Val Thr Glu Phe Val Leu Phe Gly Leu Phe
1      5      10      15
Glu Ser Arg Glu Met Gln His Thr Cys Phe Val Val Phe Phe Leu Phe
      20      25      30
His Val Leu Thr Val Leu Gly Asn Leu Leu Val Ile Ile Thr Ile Asn
      35      40      45
Ala Arg Lys Thr Leu Lys Ser Pro Met Tyr Phe Phe Leu Ser Gln Leu
      50      55      60
Ser Phe Ala Asp Ile Cys Tyr Pro Ser Thr Thr Ile Pro Lys Met Ile
65      70      75      80
Ala Asp Thr Phe Val Glu His Lys Ile Ile Ser Phe Asn Gly Cys Met
      85      90      95
Thr Gln Leu Phe Ser Ala His Phe Phe Gly Gly Thr Glu Ile Phe Leu
      100      105      110
Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu
      115      120      125
His Tyr Thr Ala Ile Met Asp Cys Arg Lys Cys Gly Leu Leu Ala Gly
      130      135      140
Ala Ser Trp Leu Ala Gly Phe Leu His Ser Ile Leu Gln Thr Leu Leu
145      150      155      160
Thr Val Gln Leu Pro Phe Cys Gly Pro Asn Glu Ile Asp Asn Phe Phe
      165      170      175
Cys Asp Val His Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr Tyr Met
      180      185      190
Val Gly Leu Ile Val Val Ala Asn Ser Gly Met Ile Ser Leu Ala Ser
      195      200      205
Phe Phe Ile Leu Ile Ile Ser Tyr Val Ile Ile Leu Leu Asn Leu Arg
      210      215      220
Ser Gln Ser Ser Glu Asp Arg Arg Lys Ala Val Ser Thr Cys Gly Ser
225      230      235      240
His Val Ile Thr Val Leu Leu Val Leu Met Pro Pro Met Phe Met Tyr
      245      250      255
Ile Arg Pro Ser Thr Thr Leu Ala Ala Asp Lys Leu Ile Ile Leu Phe
      260      265      270
Asn Ile Val Met Pro Pro Leu Leu Asn Pro Leu Ile Tyr Thr Leu Arg
      275      280      285
Asn Asn Asp Val Lys Asn Ala Met Arg Lys Leu Phe Arg Val Lys Arg

```



290  
Ser Leu Gly Glu Lys  
305

295

300

<210> 2101  
<211> 296  
<212> PRT  
<213> Homo sapien (7145013-16-7265-9434)

&lt;400&gt; 2101

Leu	Leu	Leu	Leu	Val	Leu	Leu	Leu	Pro	Thr	Phe	Leu	Leu	Ser	Leu	Met
1				5					10					15	
Gly	Asn	Met	Leu	Ile	Ile	Ser	Thr	Val	Leu	Ser	Cys	Ser	Arg	Leu	His
			20					25					30		
Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu	Ser	Ile	Leu	Asp	Ile	Leu
		35					40					45			
Phe	Thr	Ser	Val	Ile	Ser	Pro	Lys	Val	Leu	Ala	Asn	Leu	Gly	Ser	Arg
	50					55					60				
Asp	Lys	Thr	Ile	Ser	Phe	Ala	Gly	Cys	Ile	Thr	Gln	Cys	Tyr	Phe	Tyr
65					70					75				80	
Phe	Phe	Leu	Gly	Thr	Val	Glu	Phe	Leu	Leu	Leu	Thr	Val	Met	Ser	Tyr
			85					90					95		
Asp	Cys	Tyr	Ala	Ala	Ile	Cys	Cys	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Met
			100					105					110		
Arg	Pro	Tyr	Val	Cys	Ile	Gly	Thr	Val	Val	Phe	Ser	Trp	Val	Gly	Gly
		115					120					125			
Phe	Leu	Ser	Val	Leu	Phe	Pro	Thr	Ile	Leu	Ile	Ser	Gln	Leu	Pro	Phe
	130					135					140				
Cys	Gly	Ser	Asn	Ile	Ile	Asn	His	Phe	Phe	Cys	Asp	Ser	Gly	Pro	Leu
145					150					155				160	
Leu	Ala	Leu	Ala	Cys	Ala	Asp	Thr	Thr	Ala	Ile	Glu	Leu	Met	Asp	Phe
				165					170					175	
Met	Leu	Ser	Ser	Met	Val	Ile	Leu	Cys	Cys	Ile	Val	Leu	Val	Ala	Tyr
			180					185					190		
Ser	Tyr	Thr	Tyr	Ile	Ile	Leu	Thr	Ile	Met	Arg	Ile	Pro	Ser	Ala	Ser
		195					200					205			
Gly	Arg	Lys	Lys	Ala	Phe	Asn	Thr	Cys	Ala	Ser	His	Leu	Thr	Ile	Val
	210					215					220				
Ile	Ile	Ser	Ser	Gly	Ile	Thr	Val	Phe	Ile	Tyr	Val	Thr	Pro	Ser	Gln
225				230						235				240	
Lys	Glu	Tyr	Leu	Glu	Ile	Asn	Lys	Ile	Pro	Ser	Val	Leu	Ser	Ser	Leu
				245					250					255	
Val	Thr	Pro	Phe	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Asp	Thr
			260					265					270		
Val	Gln	Gly	Val	Leu	Arg	Asp	Val	Trp	Val	Arg	Val	Arg	Gly	Val	Phe
		275					280					285			
Glu	Lys	Arg	Met	Arg	Ala	Val	Leu								
	290					295									

<210> 2102  
<211> 162  
<212> PRT  
<213> Homo sapien (7211526-1-1-487)

&lt;400&gt; 2102

Val	Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Pro	Val	Met	Met	Ser	Asn	Lys
1				5					10					15	
Leu	Ser	Ala	Gln	Leu	Leu	Ser	Ile	Ser	Tyr	Val	Ile	Gly	Phe	Leu	His
			20					25					30		
Pro	Leu	Val	His	Val	Ser	Leu	Leu	Leu	Arg	Leu	Thr	Phe	Cys	Arg	Phe
		35					40					45			

```

Asn Ile Ile His Tyr Phe Tyr Cys Glu Ile Leu Gln Leu Phe Lys Ile
 50          55          60
Ser Cys Asn Gly Pro Ser Ile Asn Ala Leu Ile Ile Phe Ile Phe Gly
65          70          75          80
Ala Phe Ile Gln Ile Pro Thr Leu Met Thr Ile Ile Ile Ser Tyr Thr
          85          90          95
Arg Val Leu Phe Asp Ile Leu Lys Lys Lys Ser Glu Lys Gly Arg Ser
          100        105        110
Lys Ala Phe Ser Thr Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr
          115        120        125
Tyr Gly Thr Leu Ile Phe Met Tyr Val Arg Pro Ala Ser Gly Leu Ala
          130        135        140
Glu Asp Gln Asp Lys Val Tyr Ser Leu Phe Tyr Thr Ile Ile Ile Pro
145          150        155        160
Leu Leu

```

```

<210> 2103
<211> 162
<212> PRT
<213> Homo sapien (7211533-1-1-487)

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<220>
<221> VARIANT
<222> (1)...(162)
<223> Xaa = Any Amino Acid

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```

<400> 2103
Met Ala Ile Val Asn Pro Leu Leu Tyr Thr Val Ala Met Thr Lys Ile
 1          5          10          15
Val Cys Ile Val Leu Ala Phe Gly Ser Cys Met Gly Gly Leu Ile Ser
          20          25          30
Ser Leu Thr His Thr Ile Gly Leu Val Lys Leu Ser Phe Cys Gly Pro
          35          40          45
Asn Val Ile Ser His Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu
          50          55          60
Ser Cys Ser Glu Thr Ser Met Asn Glu Leu Leu Leu Ile Phe Ser
65          70          75          80
Gly Ile Ile Ala Thr Leu Thr Phe Leu Thr Val Val Ile Ser Tyr Ile
          85          90          95
Phe Ile Val Ala Ala Ile Leu Arg Ile Arg Xaa Glu Ala Gly Arg Arg
          100        105        110
Lys Ala Phe Ser Thr Cys Thr Ser His Leu Ile Thr Val Thr Leu Phe
          115        120        125
Tyr Gly Ser Ile Ser Phe Ser Tyr Ile Gln Pro Asn Ser Gln Tyr Ser
          130        135        140
Leu Glu Gln Glu Lys Val Val Ser Val Phe Tyr Thr Leu Val Val Pro
145          150        155        160
Met Leu

```

```

<210> 2104
<211> 162
<212> PRT
<213> Homo sapien (7211534-1-1-485)

```

```

<400> 2104
Val Gly Ile Cys Asn Pro Leu Leu Tyr Thr Val Thr Met Ser Pro Gln
 1          5          10          15
Lys Cys Leu Leu Leu Leu Gly Val Tyr Gly Met Gly Ile Phe Gly
          20          25          30

```

Ala Val Ala His Met Gly Asn Ile Met Phe Met Ser Phe Cys Gly Asp  
 35 40 45  
 Asn Leu Val Asn His Tyr Met Cys Asp Ile Leu Pro Leu Leu Glu Leu  
 50 55 60  
 Ser Cys Asn Ser Ser Tyr Ile Asn Leu Leu Val Val Phe Ile Ile Val  
 65 70 75 80  
 Thr Val Gly Ile Gly Val Pro Ile Val Thr Ile Phe Leu Ser Tyr Gly  
 85 90 95  
 Phe Ile Leu Ser Ser Ile Leu His Ile Ser Ser Thr Glu Gly Arg Ser  
 100 105 110  
 Lys Ala Phe Ser Thr Cys Ser Ser His Ile Ile Val Val Ser Leu Phe  
 115 120 125  
 Phe Gly Ser Gly Ala Phe Met Tyr Leu Lys Pro Pro Ser Ile Leu Pro  
 130 135 140  
 Leu Asp Gln Gly Lys Val Ser Ser Ile Phe Cys Thr Ala Val Val Pro  
 145 150 155 160  
 Met Phe

&lt;210&gt; 2105

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7211536-1-1-487)

&lt;400&gt; 2105

Val Ala Ile Cys Lys Pro Leu His Tyr Val Val Ile Met Asn Asn Arg  
 1 5 10 15  
 Val Cys Thr Leu Leu Val Leu Cys Cys Trp Val Ala Gly Leu Met Ile  
 20 25 30  
 Ile Val Pro Leu Ser Leu Gly Leu Gln Leu Glu Phe Cys Asp Ser  
 35 40 45  
 Asn Ala Ile Asp His Phe Ser Cys Asp Ala Gly Pro Leu Leu Lys Ile  
 50 55 60  
 Ser Cys Ser Asp Thr Trp Val Ile Glu Gln Met Val Ile Leu Met Ala  
 65 70 75 80  
 Val Phe Ala Leu Ile Ile Thr Pro Val Cys Val Ile Leu Ser Tyr Leu  
 85 90 95  
 Tyr Ile Val Arg Thr Ile Leu Lys Phe Pro Ser Val Gln Gln Arg Lys  
 100 105 110  
 Lys Ala Phe Ser Thr Cys Ser Ser His Met Ile Val Val Ser Ile Ala  
 115 120 125  
 Tyr Gly Ser Cys Ile Phe Ile Tyr Ile Lys Pro Ser Ala Lys Asp Glu  
 130 135 140  
 Val Ala Ile Asn Lys Gly Val Ser Val Leu Thr Thr Ser Val Ala Pro  
 145 150 155 160  
 Leu Leu

&lt;210&gt; 2106

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7211538-1-1-487)

&lt;400&gt; 2106

Val Ala Ile Cys His Pro Leu His Tyr Thr Val Ile Met Arg Glu Glu  
 1 5 10 15  
 Leu Cys Val Phe Leu Val Ala Val Thr Trp Ile Leu Ser Cys Ala Ser  
 20 25 30  
 Ser Leu Ser His Thr Leu Leu Leu Thr Arg Leu Ser Phe Cys Ala Ala  
 35 40 45  
 Asn Thr Ile Pro His Val Phe Cys Asp Leu Ala Ala Leu Leu Lys Leu

```

      50      55      60
Ser Cys Ser Asp Ile Phe Leu Asn Glu Leu Val Met Phe Thr Val Gly
65      70      75      80
Val Val Val Ile Thr Leu Pro Phe Met Cys Ile Leu Val Ser Tyr Gly
      85      90      95
Tyr Ile Gly Ala Thr Ile Leu Arg Val Pro Ser Thr Lys Gly Ile His
      100      105      110
Lys Ala Leu Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr
      115      120      125
Tyr Gly Ser Ile Phe Gly Gln Tyr Leu Phe Pro Thr Val Ser Ser Ser
      130      135      140
Ile Asp Lys Asp Val Ile Val Ala Leu Met Tyr Thr Val Val Thr Pro
145      150      155      160
Met Leu

```

&lt;210&gt; 2107

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7211540-1-1-478)

&lt;400&gt; 2107

```

Val Ala Ile Cys Asn Pro Leu Arg Tyr Leu Thr Val Met Asn Pro Gln
1      5      10      15
Leu Cys Leu Trp Leu Val Leu Ala Cys Trp Cys Gly Gly Phe Ile His
      20      25      30
Ser Ile Met Gln Val Ile Leu Val Ile Gln Leu Pro Phe Cys Gly Pro
      35      40      45
Asn Glu Leu Asp Asn Phe Tyr Cys Asp Val Leu Gln Ile Ile Lys Leu
      50      55      60
Ala Cys Met Asp Thr Tyr Val Val Glu Val Leu Val Ile Ala Asn Ser
65      70      75      80
Gly Leu Leu Ser Leu Val Cys Phe Leu Val Leu Leu Phe Ser Tyr Ala
      85      90      95
Ile Ile Leu Ile Thr Leu Arg Thr Arg Phe Cys Gln Gly Gln Asn Lys
      100      105      110
Val Leu Ser Thr Cys Ala Ser His Leu Thr Val Val Ser Leu Ile Phe
      115      120      125
Val Pro Cys Val Phe Ile Tyr Leu Arg Pro Phe Cys Ser Phe Ser Val
      130      135      140
Asp Lys Ile Phe Ser Leu Phe Tyr Thr Val Ile Thr Pro Met Leu
145      150      155

```

&lt;210&gt; 2108

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7211541-1-1-488)

&lt;400&gt; 2108

```

Met Ala Ile Cys Lys Pro Leu Leu Tyr Gly Ser Lys Met Thr Arg Cys
1      5      10      15
Val Cys Leu Cys Leu Ala Ala Ala Pro Tyr Ile Tyr Gly Phe Ala Asn
      20      25      30
Gly Leu Ser Gln Thr Thr Leu Met Leu Arg Leu Ser Phe Cys Gly Pro
      35      40      45
Asn Asp Ile Asn His Phe Tyr Cys Ala Asp Pro Pro Leu Leu Val Leu
      50      55      60
Ala Cys Ser Asp Thr Tyr Val Lys Glu Thr Ala Met Leu Val Val Ala
65      70      75      80
Gly Ser Asn Leu Ile Cys Ser Leu Thr Val Ile Leu Ile Ser Tyr Thr
      85      90      95

```

Phe Ile Phe Thr Ala Ile Leu Arg Ile His Thr Ala Glu Gly Arg Arg  
                   100                  105                  110  
 Lys Ala Phe Ser Thr Cys Gly Ser His Val Thr Ala Val Thr Val Phe  
                   115                  120                  125  
 Tyr Gly Thr Leu Phe Cys Met Tyr Leu Arg Pro Pro Ser Glu Thr Ser  
                   130                  135                  140  
 Ile Gln Gln Gly Lys Ile Val Ala Val Phe Tyr Ile Phe Val Ser Pro  
 145                  150                  155                  160  
 Met Leu

&lt;210&gt; 2109

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7211542-1-1-487)

&lt;400&gt; 2109

Val Ala Ile Cys Lys Pro Leu His Tyr Thr Ser Ile Met Asn Arg Lys  
 1                  5                  10                  15  
 Leu Cys Thr Leu Leu Val Leu Cys Ala Trp Leu Ser Gly Phe Leu Thr  
                   20                  25                  30  
 Ile Phe Pro Pro Leu Met Leu Leu Leu Gln Leu Asp Tyr Cys Ala Ser  
                   35                  40                  45  
 Asn Val Ile Asp His Phe Ala Cys Asp Tyr Phe Pro Leu Leu Gln Leu  
                   50                  55                  60  
 Ser Cys Ser Asp Thr Trp Leu Leu Glu Val Ile Gly Phe Tyr Phe Ala  
 65                  70                  75                  80  
 Leu Val Thr Leu Leu Phe Thr Leu Ala Leu Val Ile Leu Ser Tyr Met  
                   85                  90                  95  
 Tyr Ile Ile Arg Thr Ile Leu Arg Ile Pro Ser Ala Ser Gln Arg Lys  
                   100                  105                  110  
 Lys Ala Phe Ser Thr Cys Ser Ser His Met Ile Val Ile Ser Ile Ser  
                   115                  120                  125  
 Tyr Gly Ser Cys Ile Phe Met Tyr Ala Asn Pro Ser Ala Lys Glu Lys  
                   130                  135                  140  
 Ala Ser Leu Thr Lys Gly Ile Ala Ile Leu Asn Thr Ser Val Ala Pro  
 145                  150                  155                  160  
 Met Leu

&lt;210&gt; 2110

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7230851-8-1-2360)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(243)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2110

Met Gln Ser Glu His Leu Ala Glu Phe Ser Glu Phe Leu Ile Leu Ser  
 1                  5                  10                  15  
 Leu Ser Glu Ile Gln Asn Cys Ser Pro Phe Phe Gly Leu Phe Leu Ser  
                   20                  25                  30  
 Met Asn Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ile  
                   35                  40                  45  
 Ser Ser Asp Ser His Leu His Lys Pro Met Tyr Phe Leu Leu Ser Lys  
                   50                  55                  60  
 Leu Ser Met Ala Ala Ile Cys Phe Val Phe Thr Met Ile Gln Lys Met  
 65                  70                  75                  80

```

Met Val Asn Leu Arg Ala Gln Ser Lys Asp Ile Phe Thr Gln Pro Ser
      85          90          95
Gly Ser Pro Ile Pro Phe Xaa Met Cys Ser Leu Ile Arg Phe Leu Leu
      100        105        110
Ile Gln Gln Lys Ser Val Val Leu Ile Phe Glu Tyr Ser Leu Val Leu
      115        120        125
Ile His Pro Ile Xaa Ile Xaa Arg Cys Lys Leu Ile Ile Leu Leu Tyr
      130        135        140
Glu Pro Phe Lys Ile Ile Glu Asp Ser Tyr Val Leu Phe Leu Ile Ile
145      150      155      160
Thr Ile Leu Ser Ser His Xaa Leu Ile His Asn Cys Xaa Xaa Val Met
      165      170      175
Asp Phe Leu Leu Lys Gln Pro Leu Phe Tyr His Leu Met Leu Leu Val
      180      185      190
Met Gln Gln Leu Thr Leu Asn Ala Leu Phe Ile Phe Xaa Thr Xaa Xaa
      195      200      205
Leu Leu Leu Thr Ser Leu Xaa Asp Leu Lys Ile Ser Leu Cys Thr Val
      210      215      220
Val Ser Gln Xaa Ile Thr Thr Ile Ile Leu Lys Asn Lys Ile Lys Val
225      230      235      240
Val Ser Met

```

&lt;210&gt; 2111

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7239533-11-790-4930)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(313)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2111

```

Met Glu Ser Gln Arg Asn Ile Xaa Lys Phe Ile Leu Met Ser Leu Ser
 1      5      10      15
Ser Ile Gln Asn Ile Gln Ile Phe Val Phe Val Phe Leu Phe Cys Asn
      20      25      30
Val Ala Ile Leu Val Gly Asn Phe Leu Ile Leu Ile Ser Ile Xaa Cys
      35      40      45
Ser Pro Leu Phe Asn Gln Pro Met His Tyr Phe Leu Gly Tyr Met Asn
      50      55      60
Ile Tyr Tyr Thr Ser Cys Val Thr Pro Lys Ile Ile Gly Asp Leu Val
65      70      75      80
Val Gly Arg Ile Asn Ile Ser Tyr Asp Arg Ile Phe Pro Met His Phe
      85      90      95
Phe Gly Ile Ile Glu Ile Phe Ile Leu Thr Val Met Ala Phe Asp His
      100      105      110
Tyr Val Ala Ile Cys Lys Pro Pro Arg Tyr Leu Ile Ile Met Asn Arg
      115      120      125
Thr Lys Tyr Asn Thr Leu Ile Ser Val Ala Trp Leu Leu Gly Leu Ile
130      135      140
His Ser Leu Phe Gln Phe Ser Met Lys Ile Trp Leu Pro Phe Cys Gly
145      150      155      160
Ser Asn Lys Ile Asp Asp Xaa Tyr Xaa Asp Ile Phe Pro Leu Leu Lys
      165      170      175
Val Ala Cys Thr Asp Thr Cys Ile Thr Gly Val Leu Val Val Ala Asn
      180      185      190
Ser Gly Met Phe Ala Leu Val Thr Phe Val Leu Ser Phe Gly Ser Tyr
195      200      205
Val Ile Ile Leu Phe Pro Leu Lys Asn His Ser Val Glu Gly Arg Cys

```

210	215	220
Lys Ala Leu Ser Thr Cys Gly Ser His Ile Thr Met Val Ile Phe Phe		
225	230	235
Phe Glu Pro Ser Ile Phe Ala Tyr Leu Arg Pro Ser Thr Phe Pro Glu		240
	245	250
Asp Lys Ile Ser Ala Leu Phe Tyr Thr Ile Ile Ala Pro Met Phe Asn		255
	260	265
His Leu Ile Tyr Asn Leu Arg Asn Thr Glu Met Lys Lys Ala Met Arg		270
	275	280
Lys Val Trp Tyr Gln Ile Ser Phe Ser Glu Glu Lys Gln Leu Ile Cys		285
	290	295
Pro Thr Xaa Cys Thr Lys Glu Leu Tyr		300
305	310	

&lt;210&gt; 2112

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7239533-19-11510-15318)

&lt;400&gt; 2112

Met Gly Lys Glu Asn Cys Thr Thr Val Ala Glu Phe Ile Leu Leu Gly		
1	5	10
Leu Ser Asp Val Pro Glu Leu Arg Val Cys Leu Phe Leu Leu Phe Leu		15
	20	25
Leu Ile Tyr Gly Val Thr Leu Leu Ala Asn Leu Gly Met Ile Ala Leu		30
	35	40
Ile Gln Val Ser Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser		45
	50	55
His Leu Ser Ser Val Asp Phe Cys Tyr Ser Ser Ile Ile Val Pro Lys		60
	65	70
Met Leu Ala Asn Ile Phe Asn Lys Asp Lys Ala Ile Ser Phe Leu Gly		75
	80	85
Cys Met Val Gln Phe Tyr Leu Phe Cys Thr Cys Val Val Thr Glu Val		90
	95	100
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn		105
	110	115
Pro Leu Leu Tyr Thr Val Thr Met Ser Trp Lys Val Arg Val Glu Leu		120
	125	130
Ala Ser Cys Cys Tyr Phe Cys Gly Thr Val Cys Ser Leu Ile His Leu		135
	140	145
Cys Leu Ala Leu Arg Ile Pro Phe Tyr Arg Ser Asn Val Ile Asn His		150
	155	160
Phe Phe Cys Asp Leu Pro Pro Val Leu Ser Leu Ala Cys Ser Asp Ile		165
	170	175
Thr Val Asn Glu Thr Leu Leu Phe Leu Val Ala Thr Leu Asn Glu Ser		180
	185	190
Val Thr Ile Met Ile Ile Leu Thr Ser Tyr Leu Leu Ile Leu Thr Thr		195
	200	205
Ile Leu Lys Met Gly Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr		210
	215	220
Cys Ala Ser His Leu Thr Ala Ile Thr Val Phe His Gly Thr Val Leu		225
	230	235
Ser Ile Tyr Cys Arg Pro Ser Ser Gly Asn Ser Gly Asp Ala Asp Lys		240
	245	250
Val Ala Thr Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Ser Val		255
	260	265
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Arg Lys Val		270
	275	280
Met Gly Ser Lys Ile His Ser		285
	290	295
305	310	300

<210> 2113  
 <211> 287  
 <212> PRT  
 <213> Homo sapien (7239533-20-19626-20657)

<220>  
 <221> VARIANT  
 <222> (1)...(287)  
 <223> Xaa = Any Amino Acid

<400> 2113  
 Tyr Ile Leu Leu Asp Ile Tyr Ile Cys Leu Asn Asn Thr His Val Xaa  
 1 5 10 15  
 Leu Cys Val Glu Ser Gln Arg Gln Phe Lys Ile Ser Phe Tyr Phe Ser  
 20 25 30  
 Phe Phe Leu Leu Ala Ile Thr Xaa Phe Xaa Xaa Xaa Ile Leu Ile Ile  
 35 40 45  
 Met Lys Thr Xaa Gln Tyr Phe Leu Lys His Lys His Leu Lys Lys Lys  
 50 55 60  
 Phe Ser Xaa Cys Leu Val Tyr Ile Leu Thr Tyr Ile Leu Ser Leu Xaa  
 65 70 75 80  
 Ser Lys Phe Phe Ala Leu Cys Xaa Ile Phe Ala Asp Lys Ala Phe Gln  
 85 90 95  
 Glu Gln Val Ser Gly Asn Xaa Xaa Ser Arg Ser Xaa Glu Ser Pro Val  
 100 105 110  
 His Tyr Thr Leu Thr Met Ser Gln Lys Phe Cys Ser Ile His Pro Ala  
 115 120 125  
 Gly Cys Tyr Asp Gln Gly Ile Xaa Ser Ile Pro Gly His Ser Phe Ser  
 130 135 140  
 His Cys Ile Ala Tyr Cys Gly His Asn Val Val Asn Ile Phe Xaa Asn  
 145 150 155 160  
 Lys Tyr Ser Val Ala Ile Ser Asp Ser Cys Ser Ser Ser Trp Ile Ala  
 165 170 175  
 Asp Phe Cys Leu Phe Val Cys Phe Ala Leu Val Asn Phe Asp Xaa Leu  
 180 185 190  
 Arg Asn Leu Arg Val Leu Leu Leu Ser Phe His Phe Gln Leu Val Xaa  
 195 200 205  
 Lys Ala Leu Ser Ala Ser Ala His Gln Pro Ser Pro Pro Ile Ser His  
 210 215 220  
 Ile Ser Thr Ile Phe Leu Thr Leu Val Pro Asn Ser Lys Asn Ser Gln  
 225 230 235 240  
 Ala Ile Val Lys Ala His Ser Val Cys Tyr Ala Met Leu Ile Pro Met  
 245 250 255  
 Leu Asn Ser Gln Thr Cys Ser Met Arg Tyr Lys Asn Val Asn Glu Ser  
 260 265 270  
 Leu Gln Lys Leu Met Asp Phe Lys Ile Phe Xaa His Xaa Lys Gln  
 275 280 285

<210> 2114  
 <211> 256  
 <212> PRT  
 <213> Homo sapien (7239533-8-1261-3491)

<400> 2114  
 Met Tyr Phe Phe Leu Ser His Leu Ser Phe Leu Asp Thr Cys Tyr Ser  
 1 5 10 15  
 Asn Val Phe Thr Pro Lys Leu Leu Glu Ile Leu Val Val Glu Asp Arg  
 20 25 30  
 Thr Ile Ser Phe Lys Gly Cys Met Val Gln Phe Phe Phe Gly Cys Ala  
 35 40 45  
 Phe Val Ile Thr Glu Met Phe Met Leu Ala Val Met Ala Tyr Asp Leu



```

      50      55      60
Phe Met Ala Val Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Pro
65      70      75      80
Lys Leu Cys Ala Leu Leu Val Ala Gly Thr Tyr Thr Trp Gly Gly Leu
      85      90      95
Cys Ser Leu Thr Leu Thr Tyr Ser Leu Leu Val Leu Ser Tyr Cys Gly
      100      105      110
Ser Asn Ile Ile Asn His Phe Gly Cys Glu Tyr Ser Ala Ile Leu Ser
      115      120      125
Leu Ser Cys Ser Asp Pro Tyr Phe Asn Gln Met Ala Cys Leu Val Ile
      130      135      140
Ser Ile Phe Ser Glu Ala Cys Ser Leu Leu Ala Ile Leu Ala Phe Tyr
145      150      155      160
Val Phe Ile Val Ala Thr Val Ile Lys Met Leu Ser Thr Gly Gly Pro
      165      170      175
Gln Lys Ala Ile Ser Thr Cys Ala Ser His Leu Thr Thr Val Ser Ile
      180      185      190
Phe His Gly Val Ile Leu Leu Leu Tyr Cys Val Pro Asn Ser Lys Ser
      195      200      205
Ser Trp Leu Leu Val Lys Val Ala Thr Val Leu Phe Thr Val Ile Ile
      210      215      220
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
225      230      235      240
Gly Thr Val Arg Lys Leu Ile Asn Ser Gln Ser Pro Phe His Ser Lys
      245      250      255

```

&lt;210&gt; 2115

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7239533-9-1-1650)

&lt;400&gt; 2115

```

Met Met Met Val Leu Arg Asn Leu Ser Met Glu Pro Thr Phe Ala Leu
1      5      10      15
Leu Gly Phe Thr Asp Tyr Pro Lys Leu Gln Ile Pro Leu Phe Leu Val
      20      25      30
Phe Leu Leu Met Tyr Val Ile Thr Val Val Gly Asn Leu Gly Met Ile
      35      40      45
Ile Ile Ile Lys Ile Asn Pro Lys Phe His Thr Pro Met Tyr Phe Phe
      50      55      60
Leu Ser His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Val Thr
65      70      75      80
Pro Lys Leu Leu Glu Asn Leu Val Met Ala Asp Lys Ser Ile Phe Tyr
      85      90      95
Phe Ser Cys Met Met Gln Tyr Phe Leu Ser Cys Thr Ala Val Val Thr
      100      105      110
Glu Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile
      115      120      125
Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Gln Arg Leu Cys Ala
      130      135      140
Leu Leu Val Ala Gly Ser Tyr Leu Trp Gly Met Phe Gly Pro Leu Val
145      150      155      160
Leu Leu Cys Tyr Ala Leu Arg Leu Asn Phe Ser Gly Pro Asn Val Ile
      165      170      175
Asn His Phe Phe Cys Glu Tyr Thr Ala Leu Ile Ser Val Ser Gly Ser
      180      185      190
Asp Ile Leu Ile Pro His Leu Leu Phe Ser Phe Ala Thr Phe Asn
      195      200      205
Glu Met Cys Thr Leu Leu Ile Ile Leu Thr Ser Tyr Val Phe Ile Phe
      210      215      220
Val Thr Val Leu Lys Ile Arg Ser Val Ser Gly Arg His Lys Ala Phe

```

225                      230                      235                      240  
 Ser Thr Trp Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr  
                                  245                      250                      255  
 Ile Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg Gln Thr  
                                  260                      265                      270  
 Val Lys Val Ala Ser Val Phe Tyr Thr Val Val Asn Pro Met Leu Asn  
                                  275                      280                      285  
 Pro Pro Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Trp  
                                  290                      295                      300  
 Lys Leu Ile His Thr Gln Val Pro Phe His  
 305                      310

&lt;210&gt; 2116

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7239554-20-1-1871)

&lt;400&gt; 2116

Met Met Ser Asn Gln Thr Leu Val Thr Glu Phe Ile Leu Gln Gly Phe  
 1                      5                      10                      15  
 Ser Glu His Pro Glu Tyr Arg Val Phe Leu Phe Ser Cys Phe Leu Phe  
                                  20                      25                      30  
 Leu Tyr Ser Gly Ala Leu Thr Gly Asn Val Leu Ile Thr Leu Ala Ile  
                                  35                      40                      45  
 Thr Phe Asn Pro Gly Leu His Ala Pro Met Tyr Phe Phe Leu Leu Asn  
                                  50                      55                      60  
 Leu Ala Thr Met Asp Ile Ile Cys Thr Ser Ser Ile Met Pro Lys Ala  
 65                      70                      75                      80  
 Leu Ala Ser Leu Val Ser Glu Glu Ser Ser Ile Ser Tyr Gly Gly Cys  
                                  85                      90                      95  
 Met Ala Gln Leu Tyr Phe Leu Thr Trp Ala Ala Ser Ser Glu Leu Leu  
                                  100                      105                      110  
 Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro  
                                  115                      120                      125  
 Leu His Tyr Ser Ser Met Met Ser Lys Val Phe Cys Ser Gly Leu Ala  
                                  130                      135                      140  
 Thr Ala Val Trp Leu Leu Cys Ala Val Asn Thr Ala Ile His Thr Gly  
 145                      150                      155                      160  
 Leu Met Leu Arg Leu Asp Phe Cys Gly Pro Asn Val Ile Ile His Phe  
                                  165                      170                      175  
 Phe Cys Glu Val Pro Pro Leu Leu Leu Leu Ser Cys Ser Ser Thr Tyr  
                                  180                      185                      190  
 Val Asn Gly Val Met Ile Val Leu Ala Asp Ala Phe Tyr Gly Ile Val  
                                  195                      200                      205  
 Asn Phe Leu Met Thr Ile Ala Ser Tyr Gly Phe Ile Val Ser Ser Ile  
                                  210                      215                      220  
 Leu Lys Val Lys Thr Ala Trp Gly Arg Gln Lys Ala Phe Ser Thr Cys  
 225                      230                      235                      240  
 Ser Ser His Leu Thr Val Val Cys Met Tyr Tyr Thr Ala Val Phe Tyr  
                                  245                      250                      255  
 Ala Tyr Ile Ser Pro Val Ser Gly Tyr Ser Ala Gly Lys Ser Lys Leu  
                                  260                      265                      270  
 Ala Gly Leu Leu Tyr Thr Val Leu Ser Pro Thr Leu Asn Pro Leu Ile  
                                  275                      280                      285  
 Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg Lys Leu Phe  
                                  290                      295                      300  
 Pro Phe Phe Arg  
 305

&lt;210&gt; 2117

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7239554-9-1-1342)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(157)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2117

```

Met Gly Glu Ala Arg Asn Arg Thr Val Val Gln Glu Phe Ile Leu Glu
 1           5           10           15
Gly Phe Pro Ala Val Gln His Leu Gly Asn Val Leu Phe Leu Val His
 20           25           30
Leu Leu Ala Tyr Leu Ala Ser Ile Met Ala Asn Met Leu Ile Ile Thr
 35           40           45
Ile Thr Trp Ala Asp His His Leu Gln Thr Pro Met Tyr Phe Phe Leu
 50           55           60
Ser Ser Phe Ser Phe Cys Glu Cys Cys Phe Ile Thr Thr Val Ile Pro
65           70           75           80
Lys Leu Leu Val Ile Leu Leu Ser Gly Arg Ala Lys Ile Pro Leu Ser
 85           90           95
Thr Thr Leu Ser His Ala Val Pro Phe Ser Phe Leu Tyr Ser Trp Val
100           105           110
Asn Ser Phe Ser Ser Leu Asn Gly Cys Asp Val Pro Leu Asp Xaa Tyr
115           120           125
Leu Ala Ile Cys Lys Pro Leu His Tyr Ser Thr Ile Met Ser Leu Arg
130           135           140
Thr Ser Phe His Lys Val Thr Ala Trp Leu Cys Pro Gly
145           150           155

```

&lt;210&gt; 2118

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7239558-10-440-1325)

&lt;400&gt; 2118

```

Met Gln Gly Glu Asn Phe Thr Ile Trp Ser Ile Phe Phe Leu Glu Gly
 1           5           10           15
Phe Ser Gln Tyr Pro Gly Leu Glu Val Val Leu Phe Val Phe Ser Leu
 20           25           30
Val Met Tyr Leu Thr Thr Leu Leu Gly Asn Ser Thr Leu Ile Leu Ile
 35           40           45
Thr Ile Leu Asp Ser Arg Leu Lys Thr Pro Met Tyr Leu Phe Leu Gly
 50           55           60
Asn Leu Ser Phe Met Asp Ile Cys Tyr Thr Ser Ala Ser Val Pro Thr
65           70           75           80
Leu Leu Val Asn Leu Leu Ser Ser Gln Lys Thr Ile Ile Phe Ser Gly
 85           90           95
Cys Ala Val Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys
100           105           110
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115           120           125
Pro

```

&lt;210&gt; 2119

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7248974-19-1-3170)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(313)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2119

```

Met Leu Gly Asn Tyr Ser Ser Ala Thr Glu Phe Phe Leu Leu Gly Phe
 1           5           10           15
Pro Gly Ser Gln Glu Val Arg Arg Ile Leu Phe Val Asn Phe Phe Phe
          20           25           30
Leu Tyr Ala Val Thr Val Met Gly Asn Thr Val Ile Val Thr Val
          35           40           45
Cys Val Asp Lys His Leu Gln Ser Pro Met Tyr Phe Phe Leu Gly His
          50           55           60
Leu Cys Val Leu Glu Ile Leu Ile Thr Ser Thr Ala Ala Pro Phe Met
65           70           75           80
Leu Trp Gly Leu Leu Leu Pro Ser Thr Gln Ile Met Ser Leu Thr Ala
          85           90           95
Cys Ala Ala Gln Leu Leu Tyr Leu Ser Leu Gly Thr Ser Glu Leu Ala
          100          105          110
Leu Met Gly Val Met Ala Val Asp His Tyr Val Ala Val Cys Asn Pro
          115          120          125
Leu Arg Tyr Asn Ile Ile Met Asn Ser Ser Thr Cys Val Trp Met Val
          130          135          140
Ile Val Ser Trp Val Phe Gly Phe Leu Phe Gln Ile Trp Pro Val Tyr
145          150          155          160
Ala Thr Phe Gln Leu Thr Phe Cys Lys Ser Asn Val Leu Asp His Phe
          165          170          175
Tyr Cys Asp Xaa Gly Gln Leu Leu Lys Val Ser Cys Glu Asp Thr Leu
          180          185          190
Phe Thr Glu Phe Ile Leu Phe Leu Met Ala Val Phe Ile Ile Ile Gly
          195          200          205
Ser Leu Ile Pro Thr Ile Val Ser Tyr Thr Tyr Ile Ile Ser Thr Ile
          210          215          220
Leu Lys Ile Pro Leu Ala Ser Gly Trp Arg Lys Ser Phe Ser Thr Cys
225          230          235          240
Ala Ser His Phe Thr Cys Val Val Ile Gly Tyr Ser Ser Cys Leu Phe
          245          250          255
Leu Tyr Thr Lys Pro Lys Gln Thr Gln Ala Ala Lys Tyr Asn Arg Ile
          260          265          270
Ala Ser Leu Leu Val Leu Val Val Thr Pro Phe Leu Asn Pro Phe Ile
          275          280          285
Phe Thr Leu Arg Asn Asp Lys Phe Ile Gln Ala Phe Gly Asp Gly Met
          290          295          300
Lys His Cys Tyr Gln Leu Leu Arg Ile
305          310

```

&lt;210&gt; 2120

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7248974-26-1-596)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(138)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2120

```

Leu Leu Ser Leu Trp Ile Phe Thr Leu Phe Cys Tyr Tyr Val Xaa Tyr
 1           5           10           15
Cys Asp Glu Lys Pro Leu Phe Val Tyr Thr Leu Ile Pro Lys Cys Val
          20           25           30

```

```

Ser Asp Ile Xaa Gly Met Asn Phe Tyr Lys Cys Asn Cys Trp Val Met
      35              40              45
Gly Met Ser Asn Phe Asn Ser Phe Tyr Gln Val Phe Ile Glu His Arg
      50              55              60
Val Phe Ile Val Xaa Pro Ala Val Gly Gly Cys Phe Phe Ile Val Ser
      65              70              75              80
Asn Ile Val Cys Xaa Xaa Thr Leu Gly Lys Lys Leu Asn Ile Phe Ile
      85              90              95
Lys Ser Asn Ser His Leu Thr Thr Ile Ser Ile Tyr Gln Arg Gly Gly
      100             105             110
Met Val Thr Trp Ile Gly His Ser Asn Ser Ser Ser Tyr Gln Xaa Thr
      115             120             125
Xaa Asp Tyr Ser Leu Leu Tyr Xaa Leu Ile
      130             135

```

<210> 2121  
 <211> 161  
 <212> PRT  
 <213> Homo sapien (7248974-31-3444-4455)

<220>  
 <221> VARIANT  
 <222> (1)...(161)  
 <223> Xaa = Any Amino Acid

```

<400> 2121
Ile Cys Gly Ser His Ser Gly Val Thr Glu Phe Cys Leu Leu Gly Phe
  1              5              10              15
Pro Gly Ser Gln Xaa Val Cys His Leu Leu Pro Ser Ser Phe Val Ser
      20              25              30
Ile Val Ile Arg Asn Tyr Val Ile Ile Val Cys Val Glu Lys Cys
      35              40              45
Leu Leu Phe Leu Leu Tyr Leu Phe Tyr Gly Asp Leu Ser Val Met Glu
      50              55              60
Ile Leu Ile Thr Tyr Thr Ala Val Pro Leu Met Leu Arg Gly Cys Tyr
      65              70              75              80
Phe Pro Xaa Phe Lys Gln Tyr Leu Xaa Xaa His Val Ser Val Gln Leu
      85              90              95
Tyr Met Asn Phe Phe Gly Gly Thr Gln Glu Phe Ala Leu Leu Gly Val
      100             105             110
Met Thr Val Asn His Tyr Val Ala Leu Cys Asn Ser Leu Lys Xaa Asn
      115             120             125
Ile Ile Met Ser Ser Thr His Cys Ile Trp Leu Val Ile Val Leu Leu
      130             135             140
Ile Gly Phe Leu Ser Glu Ile Trp Ser Val Tyr Ala Thr Phe Gln Leu
      145             150             155             160
Pro

```

<210> 2122  
 <211> 169  
 <212> PRT  
 <213> Homo sapien (7249005-11-1-1318)

<220>  
 <221> VARIANT  
 <222> (1)...(169)  
 <223> Xaa = Any Amino Acid

```

<400> 2122
Asn Ser Glu Ser Lys His Phe Leu Leu Leu Lys Leu Cys Ser Met Phe

```

```

1           5           10           15
Ala Val Thr Phe Leu Ser Leu Ile Leu Ser Gly Lys Gly Leu Gln Phe
                20                25                30
Pro Phe Tyr Phe Ser Glu Cys Asn Cys Lys Val Ser Asp Val Phe Thr
        35                40                45
Val Glu Thr Arg Glu Gln Glu Ala Pro Met Lys Thr Thr Gly Phe Tyr
        50                55                60
Gly Gly Ile Met Val Trp Xaa Val Glu Ala Cys Tyr Ser Ser Cys Ile
65                70                75                80
Ser Leu Gly Ser Asn Pro Asp Tyr Thr Ala Tyr Gly Ala Leu Thr Ala
                85                90                95
Arg Xaa Pro Gln Glu Phe Leu Cys Trp Xaa Asn Arg Phe Ile Ile Met
        100                105                110
Pro Val Asn Leu Lys Met Leu Xaa Val Lys Thr Ile Trp Cys Phe Ser
        115                120                125
Arg Thr Gln Xaa Ser Leu Thr Val Ile Thr Ile Phe Pro Leu Pro Thr
        130                135                140
Phe Asn Lys Xaa Ile Ile Tyr Ile Tyr Xaa Thr Lys Glu Ile Xaa Ser
145                150                155                160
Cys Phe Ser Glu Thr Thr Gln Phe Tyr
                165

```

<210> 2123  
 <211> 110  
 <212> PRT  
 <213> Homo sapien (7249007-9-15200-16107)

<220>  
 <221> VARIANT  
 <222> (1)...(110)  
 <223> Xaa = Any Amino Acid

```

<400> 2123
Ser His Thr Glu Pro Gln Asn Leu Thr Gly Val Ser Glu Phe Leu Leu
1           5           10           15
Leu Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Trp Leu
        20                25                30
Ser Leu Ser Ile Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile
        35                40                45
Leu Ala Val Ser Ser Asp Ser His Leu His Thr Pro Ile Tyr Phe Phe
        50                55                60
Leu Phe Asn Leu Ser Leu Ala Asp Ile Gly Phe Thr Ser Ala Met Val
65                70                75                80
Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr
        85                90                95
Ala Gly Cys Leu Thr Xaa Met Ser Phe Phe Val Leu Phe Phe
        100                105                110

```

<210> 2124  
 <211> 241  
 <212> PRT  
 <213> Homo sapien (7249007-9-22951-24848)

<220>  
 <221> VARIANT  
 <222> (1)...(241)  
 <223> Xaa = Any Amino Acid

```

<400> 2124
Leu Arg Gln Leu His Asn Leu Phe Leu Pro Val Gly Phe Phe Leu Ser
1           5           10           15

```

```

Ser Tyr Ser Phe Xaa Val Ile Trp His Asn Leu Asn Ser Val Thr Lys
      20      25      30
Phe Ser Ser Lys Thr Asp Glu Ser Lys Leu Lys Ser Xaa Cys Lys Val
      35      40      45
Lys Ser Leu Phe Phe Thr Tyr Ala Gly Cys Cys Glu Lys Leu Leu Leu
      50      55      60
Ala Val Glu Lys Arg Asp Arg Ser Phe Leu Phe Ile His Phe Leu Leu
      65      70      75      80
His Xaa Ser Thr Ala Val Ser Asp His Ala Lys Val Glu Pro Gly Val
      85      90      95
Gly Arg Arg Glu Arg Gly Xaa Gly Lys Ser His Xaa Leu Thr Leu Lys
      100      105      110
Xaa Asp Gly Phe Thr Phe Ser Gly Pro Gly Gln Cys Leu Leu Phe Leu
      115      120      125
Thr His Ile Lys Pro Leu Xaa Met His Leu Thr Met Gly Ala Ser Pro
      130      135      140
Leu Pro Glu Val Arg Pro Pro Asp Phe Phe Gln Phe Pro Val Val Pro
      145      150      155      160
His Asn Pro His Ser Trp Thr Phe Thr Gln Tyr Val Arg Leu Pro Ser
      165      170      175
Trp Val Gln Ser Leu Ser Lys Gln Leu Thr His Phe Ser Phe His Gly
      180      185      190
Gln Ser Phe Lys Ser Ala Tyr Ile Xaa Leu Ala Ile Ser Gly Ala Val
      195      200      205
Thr Pro Ile Leu Leu Gln Arg Pro Arg Gly Gln Ser Ser Val Ala Val
      210      215      220
Xaa His Ile Pro Asp Asp Arg Ile His Thr Leu Lys Pro Leu Ser Gly
      225      230      235      240
Pro

```

<210> 2125  
 <211> 318  
 <212> PRT  
 <213> Homo sapien (7249162-23-8972-11111)

<220>  
 <221> VARIANT  
 <222> (1)...(318)  
 <223> Xaa = Any Amino Acid

```

<400> 2125
Met Thr Thr His Asn Ser Thr Gly Ser Ser His Ser Leu Phe Ile Leu
  1      5      10      15
Leu Ser Ile Pro Gly Leu Glu Asp Gln His Thr Trp Met Ser Leu Pro
      20      25      30
Phe Phe Ile Ser Tyr Leu Val Ala Phe Leu Gly Asn Ser Leu Ile Ile
      35      40      45
Phe Ile Ile Ile Thr Glu Cys Ser Leu His Glu Pro Met Tyr Leu Phe
      50      55      60
Leu Cys Met Leu Ala Val Ala Asp Leu Ile Leu Ser Thr Thr Thr Val
      65      70      75      80
Pro Lys Ala Leu Ala Ile Phe Trp Phe Tyr Ala Gly Ala Ile Ser Leu
      85      90      95
Gly Gly Cys Val Thr Gln Ile Phe Phe Ile His Ala Thr Phe Ile Glu
      100      105      110
Glu Ser Gly Ile Leu Leu Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
      115      120      125
Cys Asp Pro Leu His Tyr Thr Thr Val Leu Ser Arg Ala Lys Ile Thr
      130      135      140
Lys Ile Gly Leu Ala Val Val Leu Arg Ser Phe Cys Val Ile Met Pro

```

```

145          150          155          160
Asp Val Phe Leu Val Lys Arg Leu Pro Phe Cys His Ser Asn Leu Leu
          165          170          175
Pro His Thr Tyr Cys Glu His Met Ala Val Ala Lys Phe Ala Cys Ala
          180          185          190
Asp Ile His Val Asn Val Trp Tyr Gly Leu Ser Val Leu Leu Tyr Thr
          195          200          205
Val Val Leu Asp Ala Leu Leu Ile Leu Val Ser Xaa Ser Phe Ile Leu
          210          215          220
Tyr Thr Gly Phe His Leu Pro Ser Pro Gly Ala Arg Gln Lys Ala Leu
225          230          235
Gly Thr Cys Gly Ser Pro Leu Arg Val Ile Ser Met Phe Tyr Leu Pro
          245          250          255
Gly Ile Phe Thr Ile Ile Thr Gln Arg Phe Gly His His Val Pro Phe
          260          265          270
His Thr His Ile Leu Leu Gly Asn Val Trp Val Leu Ala Pro Pro Met
          275          280          285
Leu Asn Pro Ile Ile Tyr Gly Ile Asn Thr Arg Gln Ile Gln Glu Cys
290          295          300
Val Leu Ser Leu Leu Ser Ser Gln Arg Lys Xaa Cys Xaa Ile
305          310          315

```

&lt;210&gt; 2126

&lt;211&gt; 322

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7249220-22-20773-24242)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(322)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2126

```

Met Ser Val Val Glu Ala Asn Asn Ile Ser Gly Pro Val Ser Glu Phe
 1          5          10          15
Ile Leu Leu Gly Phe Pro Cys Arg Cys Arg Glu Thr Lys Ile Leu Leu
          20          25          30
Phe Val Val Phe Ser Leu Ile Tyr Leu Leu Thr Leu Met Gly Asn Thr
          35          40          45
Ser Ile Ile Cys Ala Val Trp Ser Ser Gln Lys Leu His Thr Pro Met
          50          55          60
Tyr Ile Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Cys Cys Ile Ser
65          70          75          80
Ser Asp Val Pro Asn Met Leu Ala Asn Leu Ile Ser His Ile Lys Ser
          85          90          95
Ile Ser Tyr Ala Gly Cys Leu Leu Gln Phe Phe Tyr Phe Ser Met Cys
          100          105          110
Ala Ala Glu Gly Tyr Phe Leu Ser Val Met Ser Phe Asp Arg Phe Leu
          115          120          125
Thr Ile Cys Arg Pro Leu His Tyr Pro Thr Val Met Thr His His Leu
          130          135          140
Cys Val Xaa Leu Val Ala Phe Cys Arg Ala Gly Phe Leu Ser Ile
145          150          155          160
Leu Met Pro Ala Val Leu Met Ser Arg Val Pro Phe Cys Gly Pro Asn
          165          170          175
Ile Thr Asp His Phe Phe Cys Asn Leu Gly Pro Leu Leu Ala Leu Ser
          180          185          190
Cys Ala Pro Val Pro Lys Thr Thr Leu Thr Cys Ala Thr Val Ser Ser
          195          200          205
Leu Ile Ile Phe Ile Thr Phe Leu Tyr Ile Leu Gly Ser His Ile Leu
210          215          220

```



Val Leu Arg Ala Val Leu Trp Val Pro Ala Gly Ser Gly Arg Asn Lys  
 225 230 235 240  
 Ala Phe Ser Thr Cys Ala Ser His Phe Leu Val Val Ser Phe Phe Tyr  
 245 250 255  
 Gly Ser Val Met Val Met Tyr Val Ser Pro Gly Ser Arg Ser Arg Pro  
 260 265 270  
 Gly Thr Gln Lys Phe Val Thr Leu Phe Tyr Cys Thr Ala Thr Pro Phe  
 275 280 285  
 Phe Asn Pro Leu Thr Tyr Ser Leu Trp Asn Lys Asp Met Thr Asp Ala  
 290 295 300  
 Leu Lys Lys Val Leu Gly Val Pro Ser Lys Glu Ile Ser Trp Asn Thr  
 305 310 315 320  
 Leu Lys

&lt;210&gt; 2127

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7249282-10-14985-16332)

&lt;400&gt; 2127

Met Gly Arg Arg Asn Asn Thr Asn Val Pro Asp Phe Ile Leu Thr Gly  
 1 5 10 15  
 Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Ile Leu Phe Leu  
 20 25 30  
 Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu Ile  
 35 40 45  
 Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu Thr  
 50 55 60  
 His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Ile Thr Pro Lys  
 65 70 75 80  
 Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Met Gly Cys  
 85 90 95  
 Phe Ala Gln Met Phe Phe Phe Val Phe Leu Gly Ala Ala Glu Cys Phe  
 100 105 110  
 Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro  
 115 120 125  
 Leu Arg Tyr Pro Val Ile Met Ser Lys Arg Leu Cys Cys Ala Leu Val  
 130 135 140  
 Thr Gly Pro Tyr Val Ile Ser Phe Ile Asn Ser Phe Val Asn Val Val  
 145 150 155 160  
 Trp Met Ser Arg Leu His Phe Cys Asp Ser Asn Val Val Arg His Phe  
 165 170 175  
 Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Met Asp Thr Tyr  
 180 185 190  
 Asp Ile Glu Ile Met Ile His Ile Leu Ala Gly Ser Thr Leu Met Val  
 195 200 205  
 Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr Ile  
 210 215 220  
 Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Ala Ser His Leu Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile Phe  
 245 250 255  
 Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln Val  
 260 265 270  
 Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Leu Ile Arg Val Met  
 290 295 300  
 Gln Arg Arg Gln Asp Ser Arg  
 305 310

<210> 2128  
 <211> 306  
 <212> PRT  
 <213> Homo sapien (7249282-10-21300-24858)

<220>  
 <221> VARIANT  
 <222> (1)...(306)  
 <223> Xaa = Any Amino Acid

<400> 2128  
 Thr Ala Gly Ser Asn Phe Thr Glu Val Thr Val Phe Ile Leu Ser Gly  
 1 5 10 15  
 Tyr Ala Asn His Pro Glu Leu Gln Val Ser Phe Phe Leu Met Phe Leu  
 20 25 30  
 Phe Ile Tyr Leu Phe Thr Ile Leu Gly Asn Leu Gly Leu Ile Met Leu  
 35 40 45  
 Ile Arg Met Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ala Phe Ile Asp Ile Phe Tyr Ser Ser Ser Val Thr Pro Lys  
 65 70 75 80  
 Thr Leu Ala Asn Phe Gln Ser Asn Gln Arg Ser Ile Ser Phe Val Gly  
 85 90 95  
 Cys Phe Val Gln Met Tyr Phe Ser Val Gly Leu Val Cys Thr Glu Cys  
 100 105 110  
 Phe Leu Leu Gly Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Trp Asn  
 115 120 125  
 Pro Tyr Ser Val Val Ile Ser Xaa Lys Ala Cys Asn Trp Leu Gly Val  
 130 135 140  
 Met Ser Tyr Thr Ile Gly Phe Thr Asn Ser Leu Val Ser Val Trp Val  
 145 150 155 160  
 Ile Ser Gly Leu Phe Cys Asp Ser Ser Ile Asn Phe Phe Phe Cys Asp  
 165 170 175  
 Thr Thr Ala Leu Leu Ala Leu Ser Cys Val Asp Ala Phe Ser Thr Glu  
 180 185 190  
 Met Val Ser Phe Ala Leu Ala Gly Phe Thr Leu Leu Gly Ser Ile Leu  
 195 200 205  
 Ile Ile Thr Val Thr Tyr Ile Ala Ile Thr Ser Ala Ile Leu Lys Asn  
 210 215 220  
 Gln Trp Ala Ala Gly Trp Gln Lys Ala Phe Ser Thr Cys Ala Phe His  
 225 230 235 240  
 Leu Met Ala Leu Thr Ile Phe Tyr Gly Ser Leu Ile Phe Thr Tyr Leu  
 245 250 255  
 Gln Leu Asp Lys Thr Ser Ser Leu Ile His Ala Gln Leu Ala Phe Val  
 260 265 270  
 Phe Tyr Met Thr Val Ile Pro Met Leu Asn Pro Leu Ile Xaa Ser Leu  
 275 280 285  
 Arg Asn Lys Asp Val Lys Asn Ala Leu Leu Arg Val Ile His Arg Lys  
 290 295 300  
 Leu Phe  
 305

<210> 2129  
 <211> 327  
 <212> PRT  
 <213> Homo sapien (7249282-10-488-2060)

<220>  
 <221> VARIANT  
 <222> (1)...(327)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2129

Lys Leu Gln Leu Asn Asn Phe Thr Glu Val Thr Met Phe Ile Leu Ile  
 1 5 10 15  
 Ser Phe Thr Glu Phe Asp Val Gln Val Phe Leu Phe Leu Phe  
 20 25 30  
 Leu Ala Ile Tyr Leu Phe Thr Leu Ile Gly Asn Leu Gly Leu Val Val  
 35 40 45  
 Pro Ile Ile Gly Asp Phe Trp Leu His Ser Pro Met Tyr Tyr Phe Leu  
 50 55 60  
 Gly Val Leu Ser Phe Leu Asp Val Cys Tyr Ser Thr Val Val Thr Pro  
 65 70 75 80  
 Lys Met Leu Val Asn Phe Leu Ala Lys Asn Lys Ser Ile Ser Phe Leu  
 85 90 95  
 Gly Cys Ala Thr Gln Met Phe Leu Ala Cys Thr Phe Gly Thr Thr Glu  
 100 105 110  
 Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr  
 115 120 125  
 Asn Pro Leu Leu Tyr Ser Val Ser Met Ser Pro Arg Val Tyr Val Pro  
 130 135 140  
 Leu Ile Thr Ala Ser Tyr Val Ala Ser Ile Leu His Ala Thr Ile His  
 145 150 155 160  
 Thr Val Ala Thr Phe Ser Leu Ser Phe Cys Gly Ser Asn Glu Ile Arg  
 165 170 175  
 His Val Phe Cys Asn Met Pro Pro Leu Leu Ala Ile Ser Cys Ser Asp  
 180 185 190  
 Thr His Val Ile Gln Leu Leu Phe Phe Tyr Phe Val Gly Ser Ile Glu  
 195 200 205  
 Ile Val Thr Ile Leu Ile Val Leu Ile Ser Tyr Gly Phe Ile Leu Leu  
 210 215 220  
 Ala Ile Leu Lys Met Gln Ser Ala Glu Gly Arg Arg Lys Val Phe Ser  
 225 230 235 240  
 Thr Cys Gly Ala His Leu Thr Gly Val Thr Ile Tyr His Gly Thr Ile  
 245 250 255  
 Leu Phe Met Tyr Val Arg Pro Ser Ser Ser Tyr Thr Ser Asp Asn Asp  
 260 265 270  
 Met Ile Val Ser Ile Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro  
 275 280 285  
 Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Ile Lys Arg  
 290 295 300  
 Leu Leu Val Arg Asn Trp Phe Ile Asn Lys Leu Xaa Phe Xaa Asn Xaa  
 305 310 315 320  
 Val Lys Leu Gln Ile Ile Leu  
 325

&lt;210&gt; 2130

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7249282-11-14537-16718)

&lt;400&gt; 2130

Met Asn His Val Val Lys His Asn His Thr Ala Val Thr Lys Val Thr  
 1 5 10 15  
 Glu Phe Ile Leu Met Gly Ile Thr Asp Asn Pro Gly Leu Gln Ala Pro  
 20 25 30  
 Leu Phe Gly Leu Phe Leu Ile Ile Tyr Leu Val Thr Val Ile Gly Asn  
 35 40 45  
 Leu Gly Met Val Ile Leu Thr Tyr Leu Asp Ser Lys Leu His Thr Pro  
 50 55 60  
 Met Tyr Phe Phe Leu Arg His Leu Ser Ile Thr Asp Leu Gly Tyr Ser

65					70				75				80
Thr	Val	Ile	Ala	Pro	Lys	Met	Leu	Val	Asn	Phe	Ile	Val	His
				85					90				Lys
Thr	Ile	Ser	Tyr	Asn	Trp	Tyr	Ala	Thr	Gln	Leu	Ala	Phe	Phe
			100					105					Glu
Phe	Ile	Ile	Ser	Glu	Leu	Phe	Ile	Leu	Ser	Ala	Met	Ala	Tyr
			115				120					125	Asp
Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Val	Ile	Ile	Met
			130			135					140		Ala
Lys	Val	Leu	Trp	Val	Leu	Val	Ile	Val	Pro	Tyr	Leu	Tyr	Ser
					150				155				Thr
Val	Ser	Leu	Phe	Leu	Thr	Ile	Lys	Leu	Phe	Lys	Leu	Ser	Phe
				165				170					Cys
Ser	Asn	Ile	Ile	Ser	Tyr	Phe	Tyr	Cys	Asp	Cys	Ile	Pro	Leu
			180				185					190	Met
Ile	Leu	Cys	Ser	Asp	Thr	Asn	Glu	Leu	Glu	Leu	Ile	Ile	Leu
			195			200					205		Ile
Ser	Gly	Cys	Asn	Leu	Leu	Phe	Ser	Leu	Ser	Ile	Val	Leu	Ile
			210			215				220			Ser
Met	Phe	Ile	Leu	Val	Ala	Ile	Leu	Arg	Met	Asn	Ser	Arg	Lys
					230				235				Gly
Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val
				245				250					Ile
Phe	Tyr	Gly	Thr	Leu	Leu	Phe	Ile	Tyr	Leu	Gln	Pro	Lys	Ser
			260				265					270	Ser
Thr	Leu	Ala	Ile	Asp	Lys	Met	Ala	Ser	Val	Phe	Tyr	Thr	Leu
			275			280						285	Ile
Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu
			290			295				300			Val
Asp	Ala	Leu	Lys	Arg	Thr	Leu	Thr	Asn	Arg	Phe	Lys	Ile	Pro
					310				315				Ile

&lt;210&gt; 2131

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7249282-11-25530-27263)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(317)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2131

Met	Gly	Gln	Lys	Asn	Leu	Thr	Val	Leu	Thr	Glu	Leu	Ile	Leu	Met	Glu
1				5					10					15	
Ile	Thr	Arg	Arg	Leu	Glu	Leu	Gln	Leu	Ser	Leu	Phe	Trp	Val	Phe	Leu
			20					25					30		
Ile	Ile	Cys	Thr	Phe	Thr	Val	Val	Ser	Lys	Glu	Cys	Ile	Ile	Ile	Leu
		35				40						45			
Asn	Asn	Val	Asp	Leu	Gly	Leu	Gln	Thr	Phe	Val	Tyr	Phe	Leu	Ile	Arg
		50			55					60					
Tyr	Leu	Asn	Phe	Ile	Asn	Leu	Gly	Asn	Ser	Met	Val	Ile	Tyr	Pro	Lys
		65			70				75					80	
Ile	Leu	Val	Asn	Phe	Val	Val	Ala	Gln	Asn	Ala	Ile	Pro	Cys	Tyr	Ala
			85					90						95	
Cys	Thr	Met	Gln	Met	Ala	Phe	Phe	Ile	Met	Phe	Ile	Ile	Cys	Glu	Leu
			100					105					110		
Phe	Val	Ser	Ser	Ala	Met	Ala	Tyr	Asp	His	Tyr	Val	Asp	Ile	His	Ser
			115				120					125			
Leu	Leu	Pro	Xaa	Asn	Val	Met	Ser	Gln	Glu	Leu	Cys	His	Val	Leu	Val
		130				135					140				

Ala Ile Pro Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Val Thr Ile  
 145 150 155 160  
 Lys Ile Phe Ile Leu Ala Phe Tyr Gly Ser Asn Val Ile Ser Tyr Phe  
 165 170 175  
 Tyr Cys Xaa Asp Val Ser Leu Leu Ala Met Val Asp Ser Asn Ala Xaa  
 180 185 190  
 Gly Ile Glu Met Leu Ile Thr Leu Phe Ser Val Leu Asn Leu Ile Phe  
 195 200 205  
 Phe Leu Leu Val Val Leu Met Ser Ser Met Leu Ile Leu Leu Thr Val  
 210 215 220  
 Cys Xaa Met His Ser Ala Gly Glu Gln Xaa Lys Thr Phe Phe Thr Tyr  
 225 230 235 240  
 Val Ser Cys Leu Ile Val Val Val Val Phe Cys Gly Phe Leu Tyr Phe  
 245 250 255  
 Met Tyr Leu Gln Leu Lys Phe Ser Ser Phe Phe Phe Asp Asn Asn Lys  
 260 265 270  
 Met Thr Ser Met Phe Ser Ser Leu Val Ile Thr Met Leu Tyr His Leu  
 275 280 285  
 Val Cys Ser Val Lys Asn Lys Gly Ser Lys Lys Asn Ala Phe Tyr Ser  
 290 295 300  
 Phe Phe Met Lys Gln Xaa Lys Leu Cys Asn Leu Met Val  
 305 310 315

&lt;210&gt; 2132

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7249282-5-5312-7865)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(318)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2132

Met Lys Pro Thr Ile Gln Met Ala Ser Gly Asn Leu Thr Trp Val Thr  
 1 5 10 15  
 Glu Phe Ile Leu Val Gly Val Ser Asp Asp Pro Glu Leu Gln Ile Pro  
 20 25 30  
 Leu Phe Leu Val Phe Leu Val Leu Tyr Leu Leu Thr Val Ala Gly Asn  
 35 40 45  
 Leu Gly Ile Ile Thr Leu Thr Ser Val Asp Pro Gln Leu Gln Thr Pro  
 50 55 60  
 Met Tyr Phe Phe Leu Xaa His Leu Ala Ile Ile Asn Leu Cys Asn Ser  
 65 70 75 80  
 Thr Val Val Ala Pro Lys Met Leu Val Asn Phe Leu Val Thr Lys Lys  
 85 90 95  
 Thr Ile Ser Tyr Tyr Gly Cys Ala Ala Gln Leu Gly Gly Phe Leu Val  
 100 105 110  
 Phe Ile Val Ala Glu Ile Phe Thr Leu Ala Ala Met Ala Tyr Asp Arg  
 115 120 125  
 Tyr Val Ala Ile Trp Ser Pro Leu Leu Tyr Ala Val Val Val Ser Pro  
 130 135 140  
 Lys Val Cys Arg Leu Leu Val Ser Leu Thr Tyr Leu Gln Ser Leu Ile  
 145 150 155 160  
 Thr Ala Leu Thr Val Ser Ser Cys Val Phe Ser Val Ser Tyr Cys Ser  
 165 170 175  
 Ser Asn Ile Ile Asn His Phe Tyr Cys Asp Asp Val Pro Leu Leu Ala  
 180 185 190  
 Leu Ser Cys Ser Asp Thr Tyr Ile Pro Glu Thr Ala Val Phe Ile Phe  
 195 200 205  
 Ser Gly Thr Asn Leu Leu Phe Ser Met Ile Val Val Leu Ile Ser Tyr

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      210              215              220
Phe Asn Ile Val Ile Thr Ile Leu Arg Ile Arg Ser Ser Glu Gly Arg
225              230              235              240
Gln Lys Ala Phe Ser Thr Cys Ala Ser His Met Ile Ala Val Val Val
      245              250              255
Phe Tyr Gly Thr Leu Leu Phe Met Tyr Leu Gln Pro Arg Ser Asn His
      260              265              270
Ser Leu Asp Thr Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Val Ile
      275              280              285
Pro Val Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asn Val Lys
      290              295              300
Asp Ala Leu Lys Arg Phe Leu Asp Asn Pro Cys Arg Ser Leu
305              310              315

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<210> 2133
<211> 279
<212> PRT
<213> Homo sapien (7264174-61-26274-29247)

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<220>
<221> VARIANT
<222> (1)...(279)
<223> Xaa = Any Amino Acid

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<400> 2133
Leu Pro Pro Leu Phe Phe Arg Val Phe Val Ile Leu Phe Val Ser Leu
1      5      10      15
Leu Phe Val Lys Leu Cys Ile Leu Phe Leu Ile Ile Leu Leu Val Lys
      20      25      30
Phe Leu Leu Lys Thr Lys Ile Ala Met Thr Tyr Phe Thr Tyr Leu Ser
      35      40      45
Asn Tyr Lys Leu Lys Ala Xaa Asn Ser Ile Asp Phe His Ile His Met
      50      55      60
Phe Val Tyr Val Tyr Ile Met Asn Lys Leu Val His Leu Lys Tyr Glu
      65      70      75      80
Thr Leu Thr Ser Leu Pro Phe Phe Trp Asn Ser Leu Gly Cys Leu Asp
      85      90      95
Thr Ser Xaa Phe Cys Phe Thr Phe Tyr Val Thr Tyr Ser Ser Leu Ile
      100     105     110
Val Ile Asn Met Leu Tyr Phe Leu Ala Val Leu Ala Lys Ser Ser Phe
      115     120     125
Ile Leu Cys Phe Asn Ser Leu Ser Val Asn Cys Asp Thr Phe Cys Val
      130     135     140
Trp Leu Ser Cys Phe Gly Ile Val Tyr Leu Asp Val His Pro Ile Ala
      145     150     155     160
His Cys Leu Phe Leu Lys Arg Leu Phe Lys Cys Tyr Val Phe Leu Xaa
      165     170     175
Ser Leu Val Phe Cys Phe Met His Ala Leu Leu Pro Xaa Thr Leu Lys
      180     185     190
Asn Thr Cys Phe Asp Val Leu Phe Ile Phe Ile Cys Glu Lys Ser Leu
      195     200     205
Leu Ala Asn Met Ser Phe Val Thr Ile Val Ser Ser Leu Ile Leu Leu
      210     215     220
Thr Asn Xaa Glu Ile Ile Ser Phe Ser Ser Val Ile Leu Cys Gly Thr
      225     230     235     240
Ile His Leu Asn Leu Ser Ser Phe Phe Leu His Arg Phe Phe Ile Phe
      245     250     255
Phe Phe Cys Leu Lys Ser Ala Asn Ile Tyr Leu Asn Val Asp Leu Leu
      260     265     270
Ser Ile Ile Leu Thr Leu Val
      275

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<210> 2134  
 <211> 314  
 <212> PRT  
 <213> Homo sapien (7283250-10-5473-8590)

<400> 2134  
 Met Glu Arg Gly Asn Trp Thr Leu Val Thr Glu Phe Ile Leu Val Gly  
 1 5 10 15  
 Ile Pro Thr Thr Arg Ala Leu Gly Gly Leu Leu Phe Val Ile Phe Tyr  
 20 25 30  
 Pro Ala Tyr Leu Val Thr Val Leu Gly Asn Thr Leu Ile Ile Leu  
 35 40 45  
 Ile Leu Val Asp Tyr Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Glu Thr Leu Thr Ile Thr Cys Ala Val Pro Lys  
 65 70 75 80  
 Met Leu Glu Gly Phe Pro Ser Glu Arg Lys Ser Ile Thr Ser Gly Glu  
 85 90 95  
 Cys Ser Ala Gln Ser Tyr Phe Tyr Phe Leu Ser Gly Cys Thr Glu Phe  
 100 105 110  
 Ile Pro Phe Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Ser  
 115 120 125  
 Pro Leu Gln Tyr Pro Ala Ile Met Thr Ser Ser Leu Cys Ala His Leu  
 130 135 140  
 Val Ile Leu Ser Trp Val Gly Gly Phe Leu Leu Met Leu Pro Ser Thr  
 145 150 155 160  
 Ile Leu Lys Ala Gly Leu Pro His Cys Gly Pro Asn Val Ile Glu His  
 165 170 175  
 Phe Phe Cys Asp Ser Ala Pro Leu Leu His Leu Ala Cys Ala Asp Ile  
 180 185 190  
 Arg Ala Ile Glu Leu Leu Asp Phe Leu Ser Ser Leu Val Leu Ile Leu  
 195 200 205  
 Ser Ser Leu Ser Leu Thr Val Val Ser Tyr Val Tyr Ile Ile Ser Thr  
 210 215 220  
 Ile Leu Lys Ile Pro Ser Gly Gln Gly Gln Arg Lys Ala Phe Ala Thr  
 225 230 235 240  
 Cys Ala Ser His Phe Thr Val Val Ser Val Gly Tyr Gly Ile Ser Ile  
 245 250 255  
 Phe Val Tyr Val His Pro Ser Gln Lys Ser Ser Leu His Leu Asn Lys  
 260 265 270  
 Ile Leu Phe Ile Leu Ser Ser Ile Ile Thr Pro Leu Leu Asn Pro Phe  
 275 280 285  
 Val Phe Ser Leu Trp Asn Glu Pro Met Lys Asp Ala Leu Lys Asp Ala  
 290 295 300  
 Val Gly Arg Arg Thr Glu Leu Ala Gln Arg  
 305 310

<210> 2135  
 <211> 309  
 <212> PRT  
 <213> Homo sapien (7283250-11-11521-16137)

<400> 2135  
 Met Ala Asn Leu Thr Ile Val Thr Glu Phe Ile Leu Met Gly Phe Ser  
 1 5 10 15  
 Thr Asn Lys Asn Met Cys Ile Leu His Ser Ile Leu Phe Leu Leu Ile  
 20 25 30  
 Tyr Leu Cys Ala Leu Met Gly Asn Val Leu Ile Ile Met Ile Thr Thr  
 35 40 45  
 Leu Asp His His Leu His Thr Pro Val Tyr Phe Phe Leu Lys Asn Leu

50 55 60  
 Ser Phe Leu Asp Leu Cys Leu Ile Ser Val Thr Ala Pro Lys Ser Ile  
 65 70 75 80  
 Ala Asn Ser Leu Ile His Asn Asn Ser Ile Ser Phe Leu Gly Cys Val  
 85 90 95  
 Ser Gln Val Phe Leu Leu Leu Ser Ser Ala Ser Ala Glu Leu Leu Leu  
 100 105 110  
 Leu Thr Val Met Ser Phe Asp Arg Tyr Thr Ala Ile Cys His Pro Leu  
 115 120 125  
 His Tyr Asp Val Ile Met Asp Arg Ser Thr Cys Val Gln Arg Ala Thr  
 130 135 140  
 Val Ser Trp Leu Tyr Gly Gly Leu Ile Ala Val Met His Thr Ala Gly  
 145 150 155 160  
 Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Met Val His Gln Phe Phe  
 165 170 175  
 Cys Asp Ile Pro Gln Leu Leu Ala Ile Ser Cys Ser Glu Asn Leu Ile  
 180 185 190  
 Arg Glu Ile Ala Leu Ile Leu Ile Asn Val Val Leu Asp Phe Cys Cys  
 195 200 205  
 Phe Ile Val Ile Ile Ile Thr Tyr Val His Val Phe Ser Thr Val Lys  
 210 215 220  
 Lys Ile Pro Ser Thr Glu Gly Gln Ser Lys Ala Tyr Ser Ile Cys Leu  
 225 230 235 240  
 Pro His Leu Leu Val Val Leu Phe Leu Ser Thr Gly Phe Ile Ala Tyr  
 245 250 255  
 Leu Lys Pro Ala Ser Glu Ser Pro Ser Ile Leu Asp Ala Val Ile Ser  
 260 265 270  
 Val Phe Tyr Thr Met Leu Pro Pro Thr Phe Asn Pro Ile Ile Tyr Ser  
 275 280 285  
 Leu Arg Asn Lys Ala Ile Lys Val Ala Leu Gly Met Leu Ile Lys Gly  
 290 295 300  
 Lys Leu Thr Lys Lys  
 305

&lt;210&gt; 2136

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7283250-5-1-3004)

&lt;400&gt; 2136

Met Glu Lys Arg Asn Leu Thr Val Val Arg Glu Phe Val Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ser Ser Ala Glu Gln Gln His Leu Leu Ser Val Leu Phe Leu  
 20 25 30  
 Cys Met Tyr Leu Ala Thr Thr Leu Gly Asn Met Leu Ile Ile Ala Thr  
 35 40 45  
 Ile Gly Phe Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ala Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Gln  
 65 70 75 80  
 Met Val Val Asn Ile Leu Thr Gly Thr Lys Thr Ile Ser Phe Ala Gly  
 85 90 95  
 Cys Leu Thr Gln Leu Phe Phe Phe Val Ser Phe Val Asn Met Asp Ser  
 100 105 110  
 Leu Leu Leu Cys Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Ala Arg Met Asn Leu Cys Leu Cys Val Gln Leu  
 130 135 140  
 Val Ala Gly Leu Trp Leu Val Thr Tyr Leu His Ala Leu Leu His Thr  
 145 150 155 160  
 Val Leu Ile Ala Gln Leu Ser Phe Cys Ala Ser Asn Ile Ile His His



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                165                170                175
Phe Phe Cys Asp Leu Asn Pro Leu Leu Gln Leu Ser Cys Ser Asp Val
      180                185                190
Ser Phe Asn Val Met Ile Ile Phe Ala Val Gly Gly Leu Leu Ala Leu
      195                200                205
Thr Pro Leu Val Cys Ile Leu Val Ser Tyr Gly Leu Ile Phe Ser Thr
      210                215                220
Val Leu Lys Ile Thr Ser Thr Gln Gly Lys Gln Arg Ala Val Ser Thr
      225                230                235                240
Cys Ser Cys His Leu Ser Val Val Val Leu Phe Tyr Gly Thr Ala Ile
      245                250                255
Ala Val Tyr Phe Ser Pro Ser Ser Pro His Met Pro Glu Ser Asp Thr
      260                265                270
Leu Ser Thr Ile Met Tyr Ser Met Val Ala Pro Met Leu Asn Pro Phe
      275                280                285
Ile Tyr Thr Leu Arg Asn Arg Asp Met Lys Arg Gly Leu Gln Lys Met
      290                295                300
Leu Leu Lys Cys Thr Val Phe Gln Gln
      305                310

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&lt;210&gt; 2137

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7283250-6-1-1725)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(310)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2137

```

Met Val Asn Phe Thr His Val Ser Glu Phe Val Leu Leu Gly Phe Gln
  1                5                10                15
Gly Gly Pro Gly Met Gln Ala Met Leu Phe Leu Ile Phe Leu Ile Leu
      20                25                30
Tyr Gly Ile Ala Val Val Gly Asn Leu Gly Met Ile Val Ile Ile Trp
      35                40                45
Val Asp Ala His Leu His Thr Pro Met Tyr Ala Phe Leu Gln Ser Leu
      50                55                60
Ser Leu Leu Asp Ile Cys Tyr Ser Ser Thr Ile Ala Pro Arg Ala Leu
      65                70                75                80
Ala Asn Ser Met Gln Glu Asp His Thr Ile Ser Phe Gly Gly Cys Ala
      85                90                95
Ala Gln Phe Phe Phe Leu Ser Leu Phe Gly Ile Thr Glu Ala Phe Leu
      100                105                110
Leu Ala Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Asn Pro Leu
      115                120                125
Leu Tyr Ser Val Ser Met Ser His Gln Val Cys Val Leu Leu Ile Ser
      130                135                140
Gly Ser Tyr Leu Trp Gly Val Val Asn Ala Ile Ala Gln Thr Thr Met
      145                150                155                160
Thr Phe Arg Leu Pro Phe Cys Gly Ser Asn Glu Ile Asn Asp Phe Phe
      165                170                175
Cys Asp Val Pro Pro Leu Leu Ser Leu Ser Cys Ser Asp Thr Phe Ile
      180                185                190
Asn Gln Leu Val Leu Leu Gly Leu Cys Gly Ser Ile Ile Val Ser Thr
      195                200                205
Phe Leu Ile Val Leu Val Ser Tyr Ile Tyr Ile Ile Ser Thr Ile Leu
      210                215                220
Arg Ile Pro Thr Met Gln Gly Arg Xaa Lys Ala Phe Ser Thr Cys Ala
      225                230                235                240

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[illegible]

<210> 2138

<211> 320

<212> PRT

<213> Homo sapien (7321521-20-4435-9278)

**<220>**

<221> VARIANT

$\langle 222 \rangle$  (1) ... (320)

<223> Xaa = Any Amino Acid

<400> 2138

Met 1	Ser	Ser	Arg	Leu 5	Met	Asn	Val	Phe	Ser 10	Met	Glu	Thr	Ile	Asn 15	Phe
Val	Ser	Cys	Leu 20	Ile	Leu	Met	Gly	Phe 25	Pro	Ser	Ser	Pro	Glu 30	Met	Gln
Leu	Leu	Tyr 35	Phe	Gly	Leu	Phe	Ser 40	Val	Ala	Tyr	Thr	Leu 45	Thr	Pro	Met
Gly	Asn 50	Ala	Ala	Ile	Val	Cys 55	Ala	Val	Trp	Xaa	Asp 60	Gln	His	Leu	His
Thr 65	Pro	Met	Tyr	Thr 70	Leu	Leu	Gly	Asn	Phe	Ser 75	Leu	Leu	Glu	Ile	Trp 80
Tyr	Val	Thr	Ala	Thr 85	Lys	Leu	Leu	Ala	Asn 90	Phe	Leu	Ser	Thr	Ser 95	Lys
Ser	Ile	Ser	Phe 100	Met	Ser	Cys	Phe	Ala 105	Gln	Phe	Tyr	Phe	Phe 110	Ser	Leu
Gly	Tyr	Asp 115	Glu	Gly	Phe	Phe	Leu 120	Cys	Ile	Thr	Ala	Phe 125	Asp	Arg	Tyr
Leu	Ala 130	Ile	Cys	Arg	Pro	Leu 135	Arg	Tyr	Pro	Cys	Ile 140	Met	Thr	Lys	Gln
Val 145	Cys	Thr	Gly	Leu 150	Ile	Ile	Phe	Ala	Trp	Ser 155	Cys	Val	Phe	Val	Ile 160
Phe	Leu	Thr	Leu 165	Val	Ile	Leu	Ile	Ser	Gln 170	Leu	Ser	Tyr	Cys 175	Gly	Pro
Asn	Ile	Ile	Asn 180	His	Phe	Ile	Cys	Asp 185	Pro	Val	Pro	Leu	Lys 190	Met	Leu
Ser	Cys	Ser 195	Glu	Asp	Ile	Ile	Ile 200	Thr	Gln	Leu	Ile	Tyr 205	Ser	Thr	Phe
Asn	Ser 210	Val	Phe	Ile	Ile	Gly 215	Thr	Phe	Leu	Phe	Ile 220	Leu	Cys	Ser	Tyr
Ala 225	Leu	Val	Ile	Leu 230	Ala	Ile	Ile	Arg	Met	Pro	Ser	Glu	Ala	Gly	Lys 240
Arg	Lys	Ala	Phe 245	Ser	Thr	Cys	Ala	Ser	His 250	Leu	Ala	Val	Val	Thr	Leu 255
Phe	Tyr	Gly	Ser 260	Ile	Met	Val	Met	Tyr 265	Val	Ser	Pro	Gly	Ser 270	Ala	His
Pro	Ala 275	Lys	Asn	Glu	Lys	Ile	Ile 280	Thr	Leu	Phe	Phe	Ser 285	Val	Ile	Thr
Pro	Leu 290	Cys	Asn	Pro	Leu	Ile 295	Tyr	Ser	Leu	Arg	Asn 300	Lys	Glu	Met	Lys
Asp	Tyr	Leu	Arg	Lys	Ile	Phe	Arg	Thr	Gly	Lys	Asp	Val	Asn	Lys	Ile

305

310

315

320

&lt;210&gt; 2139

&lt;211&gt; 331

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7321521-21-4479-8486)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(331)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2139

```

Met Glu Ser Glu Asn Arg Thr Val Ile Arg Glu Phe Ile Leu Leu Arg
1      5      10      15
Leu Thr Gln Phe Arg Asp Ile Xaa Leu Val Phe Val Leu Val Leu
20      25      30
Ile Phe Tyr Phe Phe Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
35      40      45
Ile Arg Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Leu Phe Leu Gly
50      55      60
Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Ile Val Ala Pro Lys
65      70      75      80
Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Gly
85      90      95
Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Gly Gly Glu Gly
100      105      110
Leu Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ile Thr Ile Cys Leu
115      120      125
Pro Leu Gln Tyr Ser Thr Val Met Asn Ser Arg Ala Cys Tyr Ala Met
130      135      140
Met Leu Ala Leu Trp Leu Gly Gly Phe Val His Ser Ile Ile Gln Val
145      150      155      160
Val Leu Ile Ile Arg Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn
165      170      175
Phe Phe Cys Asp Val Arg Gln Val Ile Lys Leu Ala Cys Thr Asp Met
180      185      190
Phe Val Val Glu Leu Leu Met Val Phe Asn Ser Gly Leu Met Thr Leu
195      200      205
Met Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys Arg
210      215      220
Ile Arg Ala Ser Ser Ser Glu Ala Lys Asn Lys Ala Met Ser Thr Cys
225      230      235      240
Thr Thr His Ile Ile Val Ile Phe Phe Met Phe Gly Pro Gly Ile Phe
245      250      255
Ile Tyr Thr Cys Pro Phe Arg Ala Phe Pro Ala Asp Lys Val Val Ser
260      265      270
Leu Phe His Thr Val Ile Leu Pro Leu Leu Asn Pro Val Ile Tyr Thr
275      280      285
Leu His Asn Gln Glu Val Lys Ala Ser Met Lys Lys Val Phe Asn Lys
290      295      300
His Ile Ala Xaa Lys Arg Ala Lys Lys Lys Arg Ile Lys Ile Asp Cys
305      310      315      320
Lys Phe Tyr Leu Lys Leu Ile Cys Leu Phe Pro
325      330

```

&lt;210&gt; 2140

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7321521-22-8611-12801)

&lt;400&gt; 2140

```

Met Glu Thr Ala Asn Tyr Thr Lys Val Thr Glu Phe Val Leu Thr Gly
 1          5          10          15
Leu Ser Gln Thr Pro Glu Val Gln Leu Val Leu Phe Val Ile Phe Leu
          20          25          30
Ser Phe Tyr Leu Phe Ile Leu Pro Gly Asn Ile Leu Ile Ile Cys Thr
          35          40          45
Ile Ser Leu Asp Pro His Leu Thr Ser Pro Met Tyr Phe Leu Leu Ala
          50          55          60
Asn Leu Ala Phe Leu Asp Ile Trp Tyr Ser Ser Ile Thr Ala Pro Glu
65          70          75          80
Met Leu Ile Asp Phe Phe Val Glu Arg Lys Ile Ile Ser Phe Asp Gly
          85          90          95
Cys Ile Ala Gln Leu Phe Phe Leu His Phe Ala Gly Ala Ser Glu Met
          100          105          110
Phe Leu Leu Thr Val Met Ala Phe Asp Leu Tyr Thr Ala Ile Cys Arg
          115          120          125
Pro Leu His Tyr Ala Thr Ile Met Asn Gln Arg Leu Cys Cys Ile Leu
          130          135          140
Val Ala Leu Ser Trp Arg Gly Gly Phe Ile His Ser Ile Ile Gln Val
          145          150          155          160
Ala Leu Ile Val Arg Leu Pro Phe Cys Gly Pro Asn Glu Leu Asp Ser
          165          170          175
Tyr Phe Cys Asp Ile Thr Gln Val Val Arg Ile Ala Cys Ala Asn Thr
          180          185          190
Phe Pro Glu Glu Leu Val Met Ile Cys Ser Ser Gly Leu Ile Ser Val
          195          200          205
Val Trp Leu Ile Ala Leu Leu Met Ser Tyr Ala Phe Leu Leu Ala Leu
          210          215          220
Phe Lys Lys Leu Ser Gly Ser Gly Glu Asn Thr Asn Arg Ala Met Ser
          225          230          235          240
Thr Cys Tyr Ser His Ile Thr Ile Val Val Leu Met Phe Gly Pro Ser
          245          250          255
Ile Tyr Ile Tyr Ala Arg Pro Phe Asp Ser Phe Ser Leu Asp Lys Val
          260          265          270
Val Ser Val Phe Asn Thr Leu Ile Phe Pro Leu Arg Asn Pro Ile Ile
          275          280          285
Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Met Arg Lys Leu Val
          290          295          300
Thr Lys Tyr Ile Leu Cys Lys Glu Lys
          305          310

```

&lt;210&gt; 2141

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7321637-16-2663-3767)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(134)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2141

```

His Met Val Asp Ile Leu Asn Arg Gln Thr Leu Leu Tyr Leu Val Leu
 1          5          10          15
Gly Leu Trp Leu Glu His Val Leu Pro Ser Ser Phe Gly Thr Val Met
          20          25          30
Val Pro Leu Cys Gly Pro Arg Met Thr Ala Arg Leu Leu Phe Leu Pro
          35          40          45
Val Pro Leu Ser Ala Glu Asn Glu Leu Arg Arg Ala Leu Leu Ser Thr
          50          55          60

```

Glu Ala His Thr Ile Ser Leu Val Gly Gln Arg Leu Ala Ile Pro Cys  
 65 70 75 80  
 Asn Asn Ile Ser Xaa Phe Ile Tyr Leu Ile Lys Asn Arg Asn Leu Gly  
 85 90 95  
 Gln Gln Pro Ala Tyr Ser Thr Cys Trp Asp His Xaa Leu Leu Val Ser  
 100 105 110  
 Leu Phe Tyr Phe Lys Thr Phe His Ile Xaa Thr His Gly Ser Thr Ser  
 115 120 125  
 Phe Thr Phe Ile Lys Leu  
 130

&lt;210&gt; 2142

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7327747-39-1-1406)

&lt;400&gt; 2142

Met Glu Thr Trp Val Asn Gln Ser Tyr Thr Asp Gly Phe Phe Leu Leu  
 1 5 10 15  
 Gly Ile Phe Ser His Ser Thr Ala Asp Leu Val Leu Phe Ser Val Val  
 20 25 30  
 Met Ala Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Leu Ile Phe  
 35 40 45  
 Leu Ile Tyr Met Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Thr Asn Val Pro  
 65 70 75 80  
 Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val  
 85 90 95  
 Gly Cys Gly Ile Gln Ile Gly Leu Phe Val Cys Leu Val Gly Ser Glu  
 100 105 110  
 Gly Leu Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser  
 115 120 125  
 His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln  
 130 135 140  
 Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Leu Ile Gln  
 145 150 155 160  
 Met Val Val Val Met Asn Phe Pro Tyr Cys Gly Leu Arg Lys Val Asn  
 165 170 175  
 His Phe Phe Cys Glu Met Leu Ser Leu Leu Lys Leu Ala Cys Val Asp  
 180 185 190  
 Thr Ser Leu Phe Glu Lys Val Ile Phe Ala Cys Cys Val Phe Met Leu  
 195 200 205  
 Leu Phe Pro Phe Ser Ile Ile Val Ala Ser Tyr Ala Arg Ile Leu Gly  
 210 215 220  
 Thr Val Leu Gln Met His Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala  
 225 230 235 240  
 Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala  
 245 250 255  
 Met Phe Ile Tyr Leu Arg Pro Arg His Tyr Arg Ala Pro Ser His Asp  
 260 265 270  
 Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro  
 275 280 285  
 Leu Ile Tyr Ser Leu Arg Asn Arg Glu Val Met Gly Ala Leu Arg Lys  
 290 295 300  
 Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His  
 305 310 315

&lt;210&gt; 2143

&lt;211&gt; 308

&lt;212&gt; PRT

<213> Homo sapien (7328761-32-2018-4643)

<220>

<221> VARIANT

<222> (1)...(308)

<223> Xaa = Any Amino Acid

<400> 2143

```

Met Lys Ile Asn Asp Ser Ser Gly Glu Asp Phe Ile Leu Val Gly Phe
 1          5          10          15
Ser Glu Tyr Pro Gln Ala Glu Phe Ile Leu Ser Leu Phe Val Ser Gly
 20          25          30
Phe Tyr Thr Met Thr Phe Thr Gly Asn Thr Ala Ile Ile Leu Val Ser
 35          40          45
Leu Leu Asp Tyr Arg Leu Arg Thr Pro Met Tyr Phe Phe Leu Arg Lys
 50          55          60
Leu Ser Phe Leu Asp Met Cys Phe Thr Thr Cys Ile Val Leu Gln Met
 65          70          75          80
Leu Val Asn Ile Trp Gly Glu Ser Lys Lys Val Ser Tyr Val Gly Cys
 85          90          95
Met Val Gln Tyr Ser Val Ala Leu Ala Leu Gly Ser Thr Glu Cys Val
 100         105         110
Leu Leu Ala Ile Met Ala Val Asp Arg Tyr Val Ala Val Arg Trp Pro
 115         120         125
Leu His Tyr Val Thr Ile Met His Gln Gln Ile Cys His Phe Leu Ala
 130         135         140
Ala Leu Ser Trp Phe Ser Gly Leu Ala Asn Ser Leu Phe His Ser Ser
 145         150         155         160
Leu Thr Thr Ile Leu Pro Leu Cys Gly His Arg Arg Val Asp His Phe
 165         170         175
Phe Cys Glu Val Leu Leu Ile Val Lys Leu Ser Cys Val Asp Thr Gly
 180         185         190
Pro Thr Glu Leu Lys Met Leu Ile Ala Arg Val Ile Ile Leu Ala Leu
 195         200         205
Pro Val Cys Thr Ile Leu Thr Ser Tyr Ala Cys Ile Ala Arg Ala Val
 210         215         220
Leu Arg Leu Gln Ser Ala Glu Gly Gln Gln Lys Ala Phe Gly Thr Cys
 225         230         235         240
Ala Ser His Leu Met Val Val Leu Leu Phe Tyr Gly Thr Ile Met Phe
 245         250         255
Met Cys Leu Gln Leu Lys Ser Asn Tyr Ser Gln Ile Gln Gly Lys Leu
 260         265         270
Leu Pro Leu Val Tyr Thr Ile Ala Ala Pro Thr Xaa Asn Pro Leu Ile
 275         280         285
Tyr Ala Leu Arg Asn Lys Val Val Lys Arg Ala Ile Gly Lys Leu Ile
 290         295         300
Trp Lys Asp Ser
305

```

<210> 2144

<211> 101

<212> PRT

<213> Homo sapien (7341899-1-693-1026)

<220>

<221> VARIANT

<222> (1)...(101)

<223> Xaa = Any Amino Acid

<400> 2144

```

Gln Met Leu Thr Asp Trp Trp Gly Pro Asn Arg Thr Thr Ser Tyr Val

```

```

1           5           10           15
Asn Cys Thr Ile Gln Phe Leu Val Ser Leu Xaa Cys Met Cys His Tyr
20           25           30
Ile Ile Ser Tyr Asn Tyr Phe Ile Ile Cys His Pro Leu Xaa Tyr
35           40           45
Leu Leu Ile Met Asn Leu Tyr Leu Leu Leu Asn Leu Thr Leu Ile Leu
50           55           60
Glu Gly Xaa Phe Ile His Phe Trp His His Val Tyr Ser Ile Leu Lys
65           70           75           80
Ile Pro Arg Met Lys Lys Lys Asn Leu Gln Ile Ile Pro Leu Ile Gly
85           90           95
Cys Cys Leu Ala Glu
100

```

&lt;210&gt; 2145

&lt;211&gt; 326

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7341899-24-747-1936)

&lt;400&gt; 2145

```

Met Glu Arg Ala Asn Asp Ser Thr Phe Ser Gly Phe Ile Leu Leu Gly
1           5           10           15
Phe Ser Asn Arg Pro Gln Leu Glu Thr Ala Leu Phe Val Val Ile Leu
20           25           30
Ile Ile Tyr Phe Leu Ser Phe Leu Gly Asn Gly Thr Ile Ile Leu Leu
35           40           45
Ser Ile Val Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50           55           60
Asn Leu Ser Phe Met Asp Leu Cys Leu Thr Thr Cys Thr Val Pro Gln
65           70           75           80
Thr Leu Val Asn Phe Lys Gly Lys Asp Lys Thr Ile Thr Tyr Gly Gly
85           90           95
Cys Val Thr Gln Leu Phe Ile Ala Leu Gly Leu Gly Gly Ser Glu Cys
100           105           110
Val Leu Leu Ser Ala Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Arg
115           120           125
Ser Leu His Tyr Met Val Ser Met His Pro Gln Leu Cys Leu Gln Leu
130           135           140
Val Val Thr Thr Trp Leu Thr Gly Phe Gly Asn Ser Val Ile Gln Thr
145           150           155           160
Ala Leu Thr Met Thr Leu Pro Leu Cys Asp Lys Asn Gln Val Asp His
165           170           175
Phe Phe Cys Glu Val Pro Val Met Leu Lys Leu Ser Cys Thr Asn Thr
180           185           190
Ser Ile Asn Glu Ala Glu Ile Phe Ala Val Ser Val Phe Phe Leu Val
195           200           205
Val Pro Leu Ser Leu Ile Leu Ala Ser Tyr Gly His Ile Thr His Ala
210           215           220
Val Leu Lys Ile Lys Ser Ala Gln Gly Arg Gln Lys Ala Phe Gly Thr
225           230           235           240
Cys Gly Ser His Leu Leu Val Val Ile Ile Phe Phe Gly Thr Leu Ile
245           250           255
Ser Met Tyr Leu Gln Pro Pro Ser Ser Tyr Ser Gln Asp Val Asn Lys
260           265           270
Ser Ile Ala Leu Phe Tyr Thr Leu Val Thr Pro Leu Leu Asn Pro Leu
275           280           285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Thr Lys Lys Thr
290           295           300
Ser Gly Glu Asp Ile Ala Cys Met Arg Lys Leu Thr Gln Gly Leu Gln
305           310           315           320
Phe Gln Thr Phe Val His

```

325

<210> 2146  
 <211> 155  
 <212> PRT  
 <213> Homo sapien (7341899-6-1-567)

<220>  
 <221> VARIANT  
 <222> (1)...(155)  
 <223> Xaa = Any Amino Acid

&lt;400&gt; 2146

Met	Lys	Lys	Lys	Asn	Leu	Gln	Asp	Asn	Ser	Leu	His	Val	Leu	Leu	Ala
1				5					10					15	
Met	Leu	Lys	Thr	Val	Phe	Leu	Asp	Ala	Thr	Ile	Glu	Glu	Met	Ser	Val
		20						25					30		
Phe	Val	Leu	Asn	Asn	Val	Asn	Val	Leu	Ile	Cys	Leu	Ile	Ser	Asn	Phe
		35					40					45			
Thr	Cys	Tyr	Gly	Tyr	Ile	Ala	Gly	Ala	Leu	Arg	Met	Asn	Thr	Ser	Asn
	50					55					60				
Xaa	Ile	Arg	Ser	Lys	Leu	Arg	Asn	Gln	Tyr	His	His	His	His	His	Arg
65					70					75					80
Cys	His	Phe	Ile	Ile	Asp	Ser	Ile	Phe	Tyr	Gly	Ile	Ile	Val	Xaa	Met
			85						90					95	
Leu	Leu	Gln	Asp	Gly	Asn	Asn	Ser	Ser	Gln	Asp	Gln	Glu	Arg	Phe	Phe
			100					105					110		
Ile	Leu	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Ser	Leu	Lys	Leu	Leu	Val	Tyr
		115					120					125			
Leu	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Asp	Ile	Ser	Arg	Arg	Ile	Leu	Arg
		130				135					140				
Phe	Gly	Arg	Glu	Ser	Ser	Lys	Met	Lys	Gly	Asn					
145						150				155					

<210> 2147  
 <211> 318  
 <212> PRT  
 <213> Homo sapien (7341900-14-7037-9080)

<220>  
 <221> VARIANT  
 <222> (1)...(318)  
 <223> Xaa = Any Amino Acid

&lt;400&gt; 2147

Met	Ala	Glu	Ser	Gly	Thr	Thr	Val	Thr	Glu	Phe	Phe	Leu	Arg	Gly	Phe
1				5					10					15	
Arg	Leu	Lys	Ala	Glu	Leu	Gln	Ile	Gly	Leu	Phe	Phe	Val	Phe	Leu	Val
		20						25					30		
Ile	Phe	Leu	Ile	Thr	Met	Gly	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu	Met
		35					40					45			
Leu	Ile	Gln	Thr	Asp	Pro	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	His	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Ile	Gly	Pro
65					70					75					80
Gln	Leu	Leu	Glu	Thr	Leu	Ala	Thr	Asp	Lys	Met	Ile	Ile	Thr	Tyr	Glu
			85						90					95	
Arg	Cys	Ala	Ser	Gln	Phe	Phe	Phe	Phe	Thr	Leu	Cys	Ala	Ser	Ile	Glu
		100						105					110		
Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys
		115					120						125		



```

Asn Pro Leu Leu Tyr Ala Ile Val Met Thr Pro Lys Thr Arg Leu Ala
 130      135      140
Leu Leu Ala Gly Ala Tyr Ser Gly Ala Ile Val Asn Ser Val Ile Cys
145      150      155      160
Thr Gly Cys Thr Phe Ser Ile Ser Phe Ser Lys Ser Asn His Val Asp
      165      170      175
Phe Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Glu
      180      185      190
Thr Arg Pro Arg Glu Trp Val Ile Tyr Leu Ser Ala Phe Leu Val Ile
      195      200      205
Thr Thr Ser Ile Ser Val Ile Leu Thr Ser Tyr Leu Phe Ile Ile Gln
      210      215      220
Ser Val Leu Lys Ile Arg Thr Ala Gly Gly Arg Ala Lys Thr Phe Ser
225      230      235      240
Thr Cys Ala Ser His Met Thr Ala Leu Thr Leu Phe Phe Gly Thr Leu
      245      250      255
Ile Phe Ile Tyr Leu Lys Gly Asn Met Gly Glu Ser Leu Glu Glu Asp
      260      265      270
Lys Ile Val Ser Ile Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
      275      280      285
Met Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala Leu Lys Lys
      290      295      300
Val Phe Asn Arg Ile Arg Val Ser Gln Ala Glu Xaa Leu Leu
305      310      315

```

&lt;210&gt; 2148

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7341900-15-17952-19084)

&lt;400&gt; 2148

```

Met Gln Pro Tyr Thr Lys Asn Trp Thr Gln Val Thr Glu Phe Val Met
 1      5      10      15
Met Gly Phe Ala Gly Ile His Glu Ala His Leu Leu Phe Phe Ile Leu
      20      25      30
Phe Leu Thr Met Tyr Leu Phe Thr Leu Val Glu Asn Leu Ala Ile Ile
      35      40      45
Leu Val Val Gly Leu Asp His Arg Leu Arg Arg Pro Met Tyr Phe Phe
      50      55      60
Leu Thr His Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Val Thr Val
      65      70      75      80
Pro Lys Met Leu Ala Gly Phe Ile Gly Val Asp Gly Gly Lys Asn Ile
      85      90      95
Ser Tyr Ala Gly Cys Leu Ser Gln Leu Phe Ile Phe Thr Phe Leu Gly
      100      105      110
Ala Thr Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
      115      120      125
Ala Ile Cys Met Pro Leu His Tyr Gly Ala Phe Val Ser Trp Gly Thr
      130      135      140
Cys Ile Arg Leu Ala Ala Cys Trp Leu Val Gly Phe Leu Thr Pro
145      150      155      160
Ile Leu Pro Ile Tyr Leu Leu Ser Gln Leu Thr Phe Cys Gly Pro Asn
      165      170      175
Val Ile Asp His Phe Ser Cys Asp Ala Ser Pro Leu Leu Ala Leu Ser
      180      185      190
Cys Ser Asp Val Thr Trp Lys Glu Thr Val Asp Phe Leu Val Ser Leu
      195      200      205
Ala Val Leu Leu Ala Ser Ser Met Val Ile Ala Val Ser Tyr Gly Asn
      210      215      220
Ile Val Trp Thr Leu Leu His Ile Arg Ser Ala Ala Glu Arg Trp Lys
225      230      235      240

```

```
<210> 2149
<211> 314
<212> PRT
<213> Homo sapien (7341900-16-17098-20843)
```

```
<210> 2150
<211> 311
<212> PRT
```

<213> Homo sapien (7341900-6-1691-2778)

<220>

<221> VARIANT

<222> (1)...(311)

<223> Xaa = Any Amino Acid

<400> 2150

Glu	Lys	Asn	Leu	Ile	Ser	Met	Asn	Gly	Phe	Met	Asn	Phe	Thr	Asp	Tyr
1				5					10					15	
Pro	Glu	Leu	Glu	Met	Pro	Leu	Phe	Leu	Val	Phe	Leu	Ser	Cys	Phe	Leu
		20						25					30		
Ala	Ile	Ile	Leu	Arg	Asn	Met	Glu	Trp	Val	Ile	Leu	Thr	Gln	Val	Asn
		35					40						45		
Val	His	Leu	Phe	Thr	Pro	Ile	Tyr	Phe	Phe	Leu	Thr	Asn	Val	Thr	Leu
	50					55					60				
Trp	Asp	Thr	Ser	Val	Ile	Met	Pro	Gln	Ile	Leu	Ala	Ile	Leu	Ala	Thr
65					70					75					80
Gly	Lys	Thr	Thr	Ile	Ser	Tyr	Val	Pro	Leu	Ile	Lys	Ala	Met	Arg	Ser
				85					90					95	
Phe	Phe	Phe	Ile	Cys	Val	Gly	Thr	Xaa	Cys	Phe	Leu	Pro	Thr	Ala	Met
			100					105					110		
Thr	Ile	Ser	Ser	His	Cys	Pro	Thr	Leu	Gln	Ala	Met	Asn	Phe	Lys	Thr
	115						120					125			
Cys	Trp	Gly	Phe	Phe	Leu	Val	Gly	Ile	Cys	Cys	Cys	Thr	Cys	Trp	Val
	130					135					140				
Leu	Met	Val	Asn	Val	Val	Asn	Ala	Tyr	Thr	Xaa	Gly	Leu	Ser	Gly	Ala
145						150				155					160
Thr	Phe	Asn	Thr	Ile	Cys	Thr	Phe	Ala	Arg	Phe	Phe	Cys	Asp	Asp	Asn
				165					170					175	
Xaa	Ile	Lys	Phe	Cys	His	Ile	Leu	Pro	Leu	Leu	Lys	Leu	Ile	Xaa	Asn
		180						185					190		
Thr	Ser	Gly	Asn	Ser	Lys	Ile	Ile	Ile	Val	Ile	Leu	Thr	Ala	Phe	Met
		195					200						205		
Ile	Ile	Ala	Gly	Thr	Arg	Val	Ile	Leu	Ile	Ser	Tyr	Leu	Leu	Ile	Ile
	210					215					220				
Arg	Ala	Leu	Arg	Met	Lys	Ser	Ser	Ser	Gly	Arg	Ser	Gln	Xaa	Phe	Tyr
225					230					235					240
Pro	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Met	Thr	Phe	Phe	Gly	Ile
				245					250					255	
Pro	Ile	Phe	Arg	His	Val	Lys	Tyr	Leu	Arg	Xaa	Ile	Thr	Asp	Arg	Arg
			260					265					270		
Gln	Val	Gly	Ile	Met	Thr	Cys	Thr	Ile	Phe	Ile	Pro	Met	Leu	Glu	Leu
		275					280					285			
Leu	Ile	Gln	Ser	Leu	Lys	Lys	Asp	Ile	Gln	Val	Ala	Phe	Lys	Lys	Ala
	290					295					300				
Ile	Gly	Asn	Phe	Trp	Val	Phe									
305						310									

<210> 2151

<211> 306

<212> PRT

<213> Homo sapien (7406632-1-90980-93013)

<400> 2151

Met	Glu	Gly	Lys	Asn	Gln	Thr	Asn	Ile	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Ser	Trp	Gln	Gln	Gln	Gln	Val	Leu	Leu	Phe	Ala	Leu	Phe	Leu
		20						25					30		
Cys	Leu	Tyr	Leu	Thr	Gly	Leu	Phe	Gly	Asn	Leu	Leu	Ile	Leu	Leu	Ala
		35					40						45		

Ile Gly Ser Asp His Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Leu Val Asp Leu Cys Leu Pro Ser Ala Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Leu Asn Ile Gln Thr Gln Thr Gln Thr Ile Ser Tyr Pro Gly  
 85 90 95  
 Cys Leu Ala Gln Met Tyr Phe Cys Met Met Phe Ala Asn Met Asp Asn  
 100 105 110  
 Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Ser Thr Ile Met Ala Leu Arg Leu Cys Ala Ser Leu  
 130 135 140  
 Val Ala Ala Pro Trp Val Ile Ala Ile Leu Asn Pro Leu Leu His Thr  
 145 150 155 160  
 Leu Met Met Ala His Leu His Phe Cys Ser Asp Asn Val Ile His His  
 165 170 175  
 Phe Phe Cys Asp Ile Asn Ser Leu Leu Pro Leu Ser Cys Ser Asp Thr  
 180 185 190  
 Ser Leu Asn Gln Leu Ser Val Leu Ala Thr Val Gly Leu Ile Phe Val  
 195 200 205  
 Val Pro Ser Val Cys Ile Leu Val Ser Tyr Ile Leu Ile Val Ser Ala  
 210 215 220  
 Val Met Lys Val Pro Ser Ala Gln Gly Lys Leu Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ala Leu Val Ile Leu Phe Tyr Gly Ala Ile Thr  
 245 250 255  
 Gly Val Tyr Met Ser Pro Leu Ser Asn His Ser Thr Glu Lys Asp Ser  
 260 265 270  
 Ala Ala Ser Val Ile Phe Met Val Val Ala Pro Val Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Asn Glu Leu Lys Gly Thr Leu Lys Lys Thr  
 290 295 300  
 Leu Ser  
 305

&lt;210&gt; 2152

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7407927-19-1-4216)

&lt;400&gt; 2152

Met Glu Gly Phe Asn Tyr Ser Arg Val Ser Glu Phe Met Leu Leu Gly  
 1 5 10 15  
 Leu Thr Asp Ser Pro Glu Leu Gln Ile Phe Phe Ser Val Val Phe Ser  
 20 25 30  
 Val Phe Tyr Leu Met Thr Met Leu Gly Asn Cys Leu Ile Leu Leu Thr  
 35 40 45  
 Val Leu Ser Thr Ser His Leu His Ser Arg Met Tyr Phe Leu Leu Ser  
 50 55 60  
 Asn Met Ser Ile Asp Met Cys Leu Ser Ser Phe Ala Thr Pro Lys Met  
 65 70 75 80  
 Ile Met Asp Phe Phe Ala Leu Arg Lys Thr Ile Ser Phe Glu Gly Cys  
 85 90 95  
 Ile Ser Gln Ile Phe Phe Leu His Leu Phe Asn Gly Thr Glu Ile Val  
 100 105 110  
 Leu Leu Ile Ser Met Ser Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro  
 115 120 125  
 Leu His Tyr Ser Thr Ile Met Ser Gln Arg Val Cys Val Glu Leu Val  
 130 135 140  
 Ala Val Ser Cys Trp Thr Val Gly Phe Leu His Thr Met Ser Gln Leu  
 145 150 155 160

Val Phe Ala Leu Tyr Leu Pro Phe Cys Val Pro Asn Val Val Asp Ser  
                                   165                                  170                                  175  
 Phe Phe Cys Asp Leu Pro Leu Val Ile Gln Leu Ala Cys Ile Asp Ile  
                                   180                                  185                                  190  
 Tyr Val Leu Gly Thr Ser Met Ile Ser Thr Ser Gly Val Ile Ala Leu  
                                   195                                  200                                  205  
 Ile Ser Phe Leu Leu Leu Leu Thr Ser Tyr Ile Ile Val Leu Asn Ile  
                                   210                                  215                                  220  
 Val Arg Asp Tyr Ser Ser Thr Gly Ser Ser Lys Ala Leu Ser Thr Cys  
                                   225                                  230                                  235                                  240  
 Thr Ala His Phe Ile Val Val Leu Met Phe Phe Gly Pro Cys Ile Phe  
                                   245                                  250                                  255  
 Ile Tyr Val Trp Pro Ser Thr Asn Phe Leu Val Asp Lys Ile Leu Ser  
                                   260                                  265                                  270  
 Val Phe Tyr Thr Ile Phe Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr  
                                   275                                  280                                  285  
 Leu Arg Asn Gln Glu Val Lys Thr Ala Met Lys Lys Lys Leu Asn Ile  
                                   290                                  295                                  300  
 Gln Tyr Phe Ser Leu Gly Lys Thr Ala Pro  
 305                                  310

&lt;210&gt; 2153

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7407927-23-3086-3824)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(117)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2153

Ser Ile Thr Glu Ala Leu Cys Leu Lys Tyr Val His Leu Asn Asn Lys  
   1                                  5                                  10                                  15  
 Glu Met Tyr Phe Met Tyr Leu Gly Lys Asn Arg Ser Arg Ile Ile Asn  
                                   20                                  25                                  30  
 Val Cys Ser Leu Val Leu Gln Ile Ile Thr Thr Ile Ile Leu Ile Leu  
                                   35                                  40                                  45  
 Pro Ser Pro Trp Leu Ser Leu Ile Ile Ser Gly Thr Phe Trp Ile Ile  
                                   50                                  55                                  60  
 Xaa Pro Leu His Ser Phe Pro His Gln Ile Ile Xaa Asn Ile Asn Thr  
   65                                  70                                  75                                  80  
 Ala Thr Glu Cys Thr Ile Ser Lys Leu Leu Tyr His Leu Gly Ser  
                                   85                                  90                                  95  
 Lys Leu Phe Asn Val Lys Ala Gln Phe Ser Thr Xaa Leu Leu Pro Asn  
                                   100                                  105                                  110  
 Glu Leu Tyr Val Leu  
                                   115

&lt;210&gt; 2154

&lt;211&gt; 338

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7407958-12-642-1844)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(338)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2154

Met Ile Ser Phe Leu Val Pro Gly Leu Met Glu Glu Glu Asn Gln Arg

1				5					10					15			
Gly	Val	Val	His	Phe	His	Phe	His	Phe	Phe	Ser	Thr	Asp	Leu	Val	Val		
			20					25					30				
Ala	Ser	Phe	Ile	Ile	Val	Ala	Leu	Met	Leu	His	Leu	Arg	Ser	Leu	Val		
		35					40					45					
Gly	His	Phe	Thr	Phe	Gly	Pro	Thr	Val	Trp	Gln	Asp	Pro	Phe	Leu	His		
	50				55					60							
Ile	Pro	Met	Tyr	Leu	Phe	Leu	Phe	Ser	Leu	Ala	Leu	Thr	Met	Leu	Glu		
65				70					75						80		
Ile	Gly	Tyr	Ser	Thr	Asn	Ile	Ser	Pro	Pro	Thr	Leu	Ala	Thr	Val	Leu		
				85				90						95			
Tyr	Met	Gly	Lys	Met	Leu	Ile	Ser	Leu	Pro	Gly	Tyr	Gly	Thr	Gln	Met		
			100					105					110				
Leu	Phe	Val	Ile	Leu	Leu	Arg	Gly	Ser	Glu	Cys	Val	Leu	Leu	Ala	Val		
		115					120					125					
Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Thr	Ile	Cys	His	Pro	Phe	Asn	Tyr	Asn		
		130				135					140						
Leu	Ile	Met	Ser	Gly	Xaa	Leu	Cys	Gly	Gln	Met	Thr	Leu	Gly	Ser	Leu		
145				150					155						160		
Arg	Leu	Gly	Phe	Leu	Leu	Ser	Leu	Phe	Leu	Thr	Met	Leu	Ile	Xaa	His		
			165					170						175			
Pro	Pro	Phe	Cys	Gly	Leu	Asp	Glu	Thr	Tyr	His	Phe	Phe	Cys	Asp	Met		
			180				185						190				
Pro	Thr	Ala	Ser	Arg	Leu	Val	Cys	Ala	Asp	Thr	Thr	Val	His	Glu	Ser		
		195				200						205					
Ala	Leu	Xaa	Leu	Pro	Cys	Gly	His	His	His	His	Pro	Leu	Pro	Ser	Ser		
		210			215						220						
Leu	Ile	Cys	Leu	Pro	Tyr	Gly	Cys	Leu	Ala	Ala	Thr	Ile	Leu	Arg	Met		
225				230					235						240		
His	Ser	Ala	Lys	Arg	Lys	His	Xaa	Ala	Phe	Ser	Thr	Ser	Ser	Ser	His		
			245					250						255			
Leu	Ile	Val	Val	Leu	Leu	Lys	Tyr	Trp	Cys	Cys	Ile	Leu	Ile	Cys	Leu		
		260					265						270				
Cys	Pro	Ser	Ser	Ser	Tyr	Ser	Pro	Glu	Glu	Gly	Trp	Glu	Val	Ser	Leu		
		275				280						285					
Val	His	Met	Phe	Ile	Leu	Pro	Val	Trp	Asn	Pro	Leu	Ile	Tyr	Ser	Val		
		290			295						300						
Trp	Asn	Gln	Asp	Val	Thr	Asp	Ala	Val	Glu	Arg	Leu	Val	Ala	Arg	Met		
305				310					315						320		
Ser	Leu	Xaa	Leu	Thr	Ala	Arg	Asn	Ile	Pro	Ser	Xaa	Lys	Ile	Phe	Pro		
				325				330						335			

Xaa Leu

&lt;210&gt; 2155

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7467565-10-15924-18962)

&lt;400&gt; 2155

Met	Ser	Asn	Glu	Asp	Met	Glu	Gln	Asp	Asn	Thr	Thr	Leu	Leu	Thr	Glu		
1			5					10					15				
Phe	Val	Leu	Thr	Gly	Leu	Thr	Tyr	Gln	Pro	Glu	Trp	Lys	Met	Pro	Leu		
		20					25					30					
Phe	Leu	Val	Phe	Leu	Val	Ile	Tyr	Leu	Ile	Thr	Ile	Val	Trp	Asn	Leu		
		35				40					45						
Gly	Leu	Ile	Ala	Leu	Ile	Trp	Asn	Asp	Pro	Gln	Leu	His	Ile	Pro	Met		
	50			55				60									
Tyr	Phe	Phe	Leu	Gly	Ser	Leu	Ala	Phe	Val	Asp	Ala	Trp	Ile	Ser	Ser		
65				70				75						80			
Thr	Val	Thr	Pro	Lys	Met	Leu	Val	Asn	Phe	Leu	Ala	Lys	Asn	Arg	Met		

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      85      90      95
Ile Ser Leu Ser Glu Cys Met Ile Gln Phe Phe Ser Phe Ala Phe Gly
      100      105      110
Gly Thr Thr Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr
      115      120      125
Val Ala Ile Cys Lys Pro Leu Leu Tyr Pro Val Ile Met Asn Asn Ser
      130      135      140
Leu Cys Ile Arg Leu Leu Ala Phe Ser Phe Leu Gly Gly Phe Leu His
      145      150      155
Ala Leu Ile His Glu Val Leu Ile Phe Arg Leu Thr Phe Cys Asn Ser
      165      170      175
Asn Ile Ile His His Phe Tyr Cys Asp Ile Ile Pro Leu Phe Met Ile
      180      185      190
Ser Cys Thr Asp Pro Ser Ile Asn Phe Leu Met Val Phe Ile Leu Ser
      195      200      205
Gly Ser Ile Gln Val Phe Thr Ile Val Thr Val Leu Asn Ser Tyr Thr
      210      215      220
Phe Ala Leu Phe Thr Ile Leu Lys Lys Lys Ser Val Arg Gly Val Arg
      225      230      235
Lys Ala Phe Ser Thr Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr
      245      250      255
Tyr Gly Pro Leu Ile Phe Met Tyr Leu Arg Pro Ala Ser Pro Gln Ala
      260      265      270
Asp Asp Gln Asp Met Ile Asp Ser Val Phe Tyr Thr Ile Ile Ile Pro
      275      280      285
Leu Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp
      290      295      300
Ser Phe Thr Lys Met Val Lys Arg Asn Val
      305      310

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&lt;210&gt; 2156

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7533967-9-17699-19044)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(320)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2156

```

Gly Val Gly Leu Xaa Lys Leu Xaa Trp Gln Ile Ile Phe Ser Gly Asp
  1      5      10      15
Ser Phe Ser Thr Trp Glu Met Phe Ser Leu Ser Ile Leu Gln Leu Pro
      20      25      30
Xaa Met Tyr Thr Val Ala Leu Ser Gly Thr Ser Ile Leu Ile Phe Leu
      35      40      45
Ile Xaa Thr Asp Phe Xaa Val His Thr Ser Leu Tyr Ser Phe Xaa Val
      50      55      60
Leu Ile Asp Ile Ala Ile Ser Val Val Lys Ile Gly Ile Glu Val Phe
      65      70      75      80
Ser Gly Lys Ile Asn Phe Ser His Thr Gly Cys Gly Thr Gln Ile Phe
      85      90      95
Phe Phe Leu Thr Ala Gly Ile Phe Lys Tyr Val Leu Leu Thr Tyr Met
      100      105      110
Ala Tyr Asp His Asn Val Ala Ile Cys Asp Leu Arg Xaa Pro Thr Phe
      115      120      125
Met Ser Asp Gln Val Phe Xaa Gln Trp Ala Val Glu Ser Trp Ile Gly
      130      135      140
Gly Lys Leu Ser Ser Leu Ala His Thr Ile Tyr Ile Phe His Leu Phe
      145      150      155      160

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Ser Tyr Lys Ala Lys Glu Ile Ser His Leu Trp Pro Lys Leu Phe Xaa  
 165 170 175  
 Ser Ser Ser Val Gly Ile Pro Tyr Ile Gln Asn Asp Val Phe Phe Thr  
 180 185 190  
 Ile Ile Thr Phe Leu Phe Thr Leu Leu Pro Leu Thr Leu Thr Ser  
 195 200 205  
 Ser Lys Leu Ile Val Phe Thr Ile Leu His Met Asn Ser Ser Asn Gly  
 210 215 220  
 Gly Ala Lys Ser Trp His Thr Tyr Cys Phe His Leu Ser Val Leu Ile  
 225 230 235 240  
 Pro Cys Cys Gly Gln Ala Ile Phe Val Tyr Met Thr Ser Ser Ser Phe  
 245 250 255  
 Xaa Thr Val Asn Lys Tyr Gln Thr Met Ser Val Leu Thr Ala Xaa Leu  
 260 265 270  
 Tyr Pro Leu Leu Lys Pro Leu Ile Asp Ile Leu Lys Asn Ala Glu Val  
 275 280 285  
 Ala Gly Ala Trp Ser Lys Phe Leu Xaa Lys Lys Ala Leu Lys Ser Gln  
 290 295 300  
 His Leu Ile Thr Arg Ser Cys Glu Asn Lys Xaa Thr Thr Glu Gln Ser  
 305 310 315 320

&lt;210&gt; 2157

&lt;211&gt; 196

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7534025-1-1-1622)

&lt;400&gt; 2157

Met Gly Tyr Asp Arg Tyr Met Ala Ile Cys Asn Pro Leu Arg Tyr Ser  
 1 5 10 15  
 Val Leu Met Gly His Gly Val Cys Met Gly Leu Met Ala Ala Ala Cys  
 20 25 30  
 Ala Cys Gly Phe Thr Val Ser Leu Val Thr Thr Ser Leu Val Phe His  
 35 40 45  
 Leu Pro Phe His Ser Ser Asn Gln Leu His His Phe Phe Cys Asp Ile  
 50 55 60  
 Ser Pro Val Leu Lys Leu Ala Ser Gln His Ser Gly Phe Ser Gln Leu  
 65 70 75 80  
 Val Ile Phe Met Leu Gly Val Phe Ala Leu Val Ile Pro Leu Leu Leu  
 85 90 95  
 Ile Leu Val Ser Tyr Ile Arg Ile Ile Ser Ala Ile Leu Lys Ile Pro  
 100 105 110  
 Ser Ser Val Gly Arg Tyr Lys Thr Phe Ser Thr Cys Ala Ser His Leu  
 115 120 125  
 Ile Val Val Thr Val His Tyr Ser Cys Ala Ser Phe Ile Tyr Leu Arg  
 130 135 140  
 Pro Lys Thr Asn Tyr Thr Ser Ser Gln Asp Thr Leu Ile Ser Val Ser  
 145 150 155 160  
 Tyr Thr Ile Leu Thr Pro Leu Phe Asn Pro Met Ile Tyr Ser Leu Arg  
 165 170 175  
 Asn Lys Glu Phe Lys Ser Ala Leu Arg Arg Thr Ile Gly Gln Thr Phe  
 180 185 190  
 Tyr Pro Leu Ser  
 195

&lt;210&gt; 2158

&lt;211&gt; 307

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7534025-11-6732-9742)

&lt;220&gt;

&lt;221&gt; VARIANT



&lt;222&gt; (1)...(307)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2158

```

Met Ile Thr Glu Phe Ile Leu Ile Gly Phe Ser Asn Leu Gly Asp Leu
 1           5           10          15
Gln Ile Leu Leu Phe Phe Ile Phe Leu Leu Val Tyr Leu Thr Thr Leu
          20           25           30
Met Ala Asn Thr Thr Ile Met Thr Val Ile His Leu Asp Arg Ala Leu
          35           40           45
His Thr Pro Met Tyr Phe Phe Leu Phe Val Leu Ser Cys Ser Glu Thr
          50           55           60
Cys Tyr Thr Leu Val Ile Val Pro Lys Met Leu Thr Asn Leu Leu Ser
          65           70           75           80
Ala Ile Pro Thr Ile Ser Phe Ser Gly Cys Val Val Gln Leu Tyr Leu
          85           90           95
Phe Val Gly Leu Ala Cys Thr Asn Cys Phe Leu Ile Ala Val Met Gly
          100          105          110
Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Asn Tyr Thr Leu Ile
          115          120          125
Val Ser Xaa Ala Thr Cys Met Gln Leu Val Leu Ala Ser Ser Phe Cys
          130          135          140
Gly Phe Leu Thr Ser Val Ile Val Asn Ile Leu Val Phe Ser Val Leu
          145          150          155          160
Leu Cys Ala Ser Asn Arg Ile Asn His Phe Phe Cys Asp Ile Ser Pro
          165          170          175
Val Ile Lys Leu Gly Cys Thr Asp Thr Asn Leu Lys Glu Met Val Ile
          180          185          190
Phe Phe Leu Ser Ile Leu Val Leu Leu Val Pro Leu Val Leu Ile Phe
          195          200          205
Ile Ser Tyr Ile Phe Ile Val Ser Thr Ile Leu Lys Ile Ser Ser Val
          210          215          220
Glu Gly Gln Cys Lys Ala Phe Ala Thr Cys Ala Ser His Leu Thr Val
          225          230          235          240
Val Val Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
          245          250          255
Ser Leu Tyr Ser Ser Asp Lys Asp Arg Leu Val Ala Val Thr Tyr Thr
          260          265          270
Val Ile Thr Pro Leu Leu Asn Pro Leu Val Tyr Thr Leu Arg Asn Lys
          275          280          285
Glu Val Lys Met Ala Leu Arg Lys Val Leu Gly Arg Cys Leu Asn Ser
          290          295          300
Lys Thr Val
305

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&lt;210&gt; 2159

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7534025-12-11728-15143)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(321)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2159

```

Gly Thr Lys Ser Ile Lys Leu Thr Ser Leu Ser Glu Phe Leu Leu Leu
 1           5           10          15
Glu Phe Ser Ser Leu Glu Glu Ile Gln Gln Ile Leu Phe Leu Val Cys
          20           25           30
Leu Trp Leu Tyr Leu Ile Val Leu Ser Gly Asn Ile Thr Thr Val Thr

```

35	40	45
Val Ile Arg Leu Asp Gln Ser Leu His Ile Pro Val Tyr Leu Phe Leu		
50	55	60
Gly Ile Leu Ser Ile Ser Gly Thr Cys Tyr Thr Phe Val Ile Leu Pro		
65	70	75
Lys Met Leu Ile Asp Leu Leu Ser Leu Leu Arg Thr Ile Ser Phe Ile		
85	90	95
Asn Cys Ala Leu Gln Met Phe Phe Phe Leu Gly Phe Ala Val Thr Asn		
100	105	110
Phe Met Phe Leu Gly Met Thr Val Tyr Asp Ser Tyr Val Ala Ile Cys		
115	120	125
His Pro Leu His Tyr Pro Val Leu Thr Ser Trp Gln Ile Cys Lys Gln		
130	135	140
Leu Ala Ala Thr Cys Ala Val Ile Val Phe Phe Cys Leu Phe Val Phe		
145	150	155
Thr Asp Arg Leu Leu Arg Phe Ser Leu Leu Phe Cys Gly Pro Asn		
165	170	175
Lys Ile Asn His Tyr Phe Cys Asp Ile Ser Leu Leu Ile Gln Leu Ala		
180	185	190
Cys Thr Asp Thr Tyr Ile Arg Glu Leu Val Ile Phe Ile Gly Gly Ile		
195	200	205
Leu Ala Leu Thr Val Pro Leu Met Phe Ile Cys Ile Ser Tyr Gly Phe		
210	215	220
Ile Val His Thr Ile Leu Arg Ile Pro Ser Cys Glu Ser Lys Gln Lys		
225	230	235
Ala Ile Ser Thr Cys Ala Ser His Leu Ile Met Val Val Val His Tyr		
245	250	255
Gly Cys Ala Ser Phe Val Asn Leu Xaa Pro Ser Ala Lys Xaa Ser Ser		
260	265	270
Ser Lys Xaa Pro Ser Ser Lys Asn Arg Leu Val Thr Val Thr Tyr Thr		
275	280	285
Val Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Phe Lys Asn Lys		
290	295	300
Asn Val Gln Met Ala Ile Trp Lys Val Ile Cys Gln Gly Gly Phe Pro		
305	310	315
Pro		320

&lt;210&gt; 2160

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7534025-3-4346-5996)

&lt;400&gt; 2160

Met Thr Thr Ile Ile Leu Glu Val Asp Asn His Thr Val Thr Thr Arg	
1	15
Phe Ile Leu Leu Gly Phe Pro Thr Arg Pro Ala Phe Gln Leu Leu Phe	
20	30
Phe Ser Ile Phe Leu Ala Thr Tyr Leu Leu Thr Leu Leu Glu Asn Leu	
35	45
Leu Ile Ile Leu Ala Ile His Ser Asp Gly Gln Leu His Lys Pro Met	
50	60
Tyr Phe Phe Leu Ser His Leu Ser Phe Leu Glu Met Trp Tyr Val Thr	
65	80
Val Ile Ser Pro Lys Met Leu Val Asp Phe Leu Ser His Asp Lys Ser	
85	95
Ile Ser Phe Asn Gly Cys Met Thr Gln Leu Tyr Phe Phe Val Thr Phe	
100	110
Val Cys Thr Glu Tyr Ile Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr	
115	125
Val Ala Ile Cys Asn Pro Leu Arg Tyr Pro Val Ile Met Thr Asn Gln	

130	135	140
Leu Cys Gly Thr Leu	Ala Gly Gly Cys Trp Phe	Cys Gly Leu Met Thr
145	150	155
Ala Met Ile Lys Met	Val Phe Ile Ala Gln Leu	His Tyr Cys Gly Met
165	170	175
Pro Gln Ile Asn His	Tyr Phe Cys Asp Ile Ser	Pro Leu Leu Asn Val
180	185	190
Ser Cys Glu Asp Ala	Ser Gln Ala Glu Met Val	Asp Phe Phe Leu Ala
195	200	205
Leu Met Val Ile Ala	Ile Pro Leu Cys Val Val	Val Ala Ser Tyr Ala
210	215	220
Ala Ile Leu Ala Thr	Ile Leu Arg Ile Pro Ser	Ala Gln Gly Arg Gln
225	230	235
Lys Ala Phe Ser Thr	Cys Ala Ser His Leu Thr	Val Val Ile Leu Phe
245	250	255
Tyr Ser Met Thr Leu	Phe Thr Tyr Ala Arg Pro	Lys Leu Met Tyr Ala
260	265	270
Tyr Asn Ser Asn Lys	Val Val Ser Val Leu Tyr	Thr Val Ile Val Pro
275	280	285
Leu Leu Asn Pro Ile	Ile Tyr Cys Leu Arg Asn	His Glu Val Lys Ala
290	295	300
Ala Leu Arg Lys Thr	Ile His Cys Arg Gly Ser	Gly Pro Gln Gly Asn
305	310	315
Gly Ala Phe Ser		

&lt;210&gt; 2161

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7534103-14-4211-5521)

&lt;400&gt; 2161

Met Val Ala Thr	Asn Asn Val Thr	Glu Ile Ile Phe	Val Gly Phe Ser
1	5	10	15
Gln Asn Trp Ser	Glu Gln Arg Val	Ile Ser Val Met	Phe Leu Leu Met
20	25	30	
Tyr Thr Ala Val	Val Leu Gly Asn	Gly Leu Ile Val	Val Thr Ile Leu
35	40	45	
Ala Ser Lys Val	Leu Thr Ser Pro	Met Tyr Phe Phe	Leu Ser Tyr Leu
50	55	60	
Ser Phe Val Glu	Ile Cys Tyr Cys	Ser Val Met Ala	Pro Lys Leu Ile
65	70	75	80
Phe Asp Ser Phe	Ile Lys Arg Lys	Val Ile Ser Leu	Lys Gly Cys Leu
85	90	95	
Thr Gln Met Phe	Ser Leu His Phe	Phe Gly Gly Thr	Glu Ala Phe Leu
100	105	110	
Leu Met Val Met	Ala Tyr Asp Arg	Tyr Val Ala Ile	Cys Lys Pro Leu
115	120	125	
His Tyr Met Ala	Ile Met Asn Gln	Arg Met Cys Gly	Leu Leu Val Arg
130	135	140	
Ile Ala Trp Gly	Gly Gly Leu Leu	His Ser Val Gly	Gln Thr Phe Leu
145	150	155	160
Ile Phe Gln Leu	Pro Phe Cys Gly	Pro Asn Ile Met	Asp His Tyr Phe
165	170	175	
Cys Asp Val His	Pro Val Leu Glu	Leu Ala Cys Ala	Asp Thr Phe Phe
180	185	190	
Ile Ser Leu Leu	Ile Ile Thr Asn	Gly Gly Ser Ile	Ser Val Val Ser
195	200	205	
Phe Phe Val Leu	Met Ala Ser Tyr	Leu Ile Ile Leu	His Phe Leu Arg
210	215	220	
Ser His Asn Leu	Glu Gly Gln His	Lys Ala Leu Ser	Thr Cys Ala Ser

225                      230                      235                      240  
 His Val Thr Val Val Asp Leu Phe Phe Ile Pro Cys Ser Leu Val Tyr  
                                  245                      250                      255  
 Ile Arg Pro Cys Val Thr Leu Pro Ala Asp Lys Ile Val Ala Val Phe  
                                  260                      265                      270  
 Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Val Ile Tyr Ser Phe Arg  
                                  275                      280                      285  
 Asn Ala Glu Val Lys Asn Ala Met Arg Arg Phe Ile Gly Gly Lys Val  
                                  290                      295                      300  
 Ile  
 305

<210> 2162

<211> 301

<212> PRT

<213> Homo sapien (7534103-16-19899-21252)

<220>

<221> VARIANT

<222> (1)...(301)

<223> Xaa = Any Amino Acid

<400> 2162

Met Ala Ser Thr Asn Asn Val Thr Glu Ser Met Ile Thr Ser Leu Phe  
 1                      5                      10                      15  
 Gln Asp Pro Ala Val Gln Arg Val Cys Phe Val Val Phe Leu Pro Val  
                                  20                      25                      30  
 Tyr Leu Ala Met Glu Val Gly Asn Gly Leu Ile Val Leu Thr Val Ser  
                                  35                      40                      45  
 Ile Ser Lys Ser Leu His Ser Pro Val Tyr Phe Phe Leu Ser Tyr Leu  
                                  50                      55                      60  
 Ser Leu Met Glu Ile Ser Tyr Phe Thr Val Val Pro Lys Phe Ile Thr  
                                  65                      70                      75                      80  
 Asp Leu Leu Ala Lys Ile Lys Ala Ile Ser Leu Glu Gly Tyr Leu Ala  
                                  85                      90                      95  
 Gln Ile Phe Leu His Phe Phe Gly Ile Pro Trp Ile Phe Leu Leu Pro  
                                  100                      105                      110  
 Leu Met Thr Asn Asp Gln Tyr Met Ala Asn Cys Lys Leu Tyr Tyr Tyr  
                                  115                      120                      125  
 Thr Thr Ile Met Ser Cys Arg Val Cys His Leu Leu Val Ala Gly Phe  
                                  130                      135                      140  
 Trp Leu Arg Gly Ile Ile His Ser Met Val Gln Ile Leu Val Ser Val  
                                  145                      150                      155                      160  
 Gln Leu Phe Phe Cys Gly Pro Asn Met Ile Asp His Ser Phe Cys Asp  
                                  165                      170                      175  
 Leu Gln Val Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Val Glu Gly  
                                  180                      185                      190  
 Val Ile Val Leu Ala Asn Ser Glu Leu Val Ser Val Phe Phe Leu Ile  
                                  195                      200                      205  
 Leu Val Ser Ser Tyr Ile Ile Ile Leu Val Asn Leu Arg Asn His Ser  
                                  210                      215                      220  
 Ala Glu Gly Arg Cys Lys Ala Leu Ser Thr Cys Ala Ser Tyr Leu Val  
                                  225                      230                      235                      240  
 Phe Xaa Thr Cys Ile Phe Leu Tyr Val Xaa Leu Ser Ser Thr Phe Thr  
                                  245                      250                      255  
 Lys Asp Lys Leu Val Ala Val Phe Tyr Val Val Ile Thr Pro Met Leu  
                                  260                      265                      270  
 Asn Pro Phe Ile Tyr Thr Leu Gly Asn Ala Glu Met Lys Ile Thr Met  
                                  275                      280                      285  
 Arg Arg Leu Leu Gly Arg Thr Val Asn Ser Gly Met Glu  
                                  290                      295                      300

<210> 2163  
 <211> 134  
 <212> PRT  
 <213> Homo sapien (7534103-16-5480-6475)

<220>  
 <221> VARIANT  
 <222> (1)...(134)  
 <223> Xaa = Any Amino Acid

<400> 2163  
 Cys Phe Cys Gly Phe Ala Val Leu Thr Ser Cys Leu Phe Cys Leu Thr  
 1 5 10 15  
 Pro Glu Arg Xaa His Asn Thr Leu Arg Met Ala Leu Gly Ser His Arg  
 20 25 30  
 Phe Pro Ser Xaa Pro Ile Lys Lys Asn Tyr Lys Trp Pro His Tyr Gln  
 35 40 45  
 Pro Glu Leu Leu Pro His Trp Ser Ser Lys Thr Glu Arg Ile Cys Ser  
 50 55 60  
 Pro Ala Pro Ser Gly Leu Glu Met Leu Arg Asn Ala Lys Pro Leu Gly  
 65 70 75 80  
 Phe Gln Leu Tyr Leu Ile Xaa Asn Glu Gln Ser Arg Leu Ala Pro Gln  
 85 90 95  
 Gly Val Pro Gln Lys Thr Xaa Ser Leu Cys Ser Ser Ala Leu Ser Ser  
 100 105 110  
 Tyr Cys Leu Lys Asp Thr Gly Gly Gly Gly Lys Xaa Ser Gly Glu Arg  
 115 120 125  
 Ser Ser Phe Pro Arg Glu  
 130

<210> 2164  
 <211> 307  
 <212> PRT  
 <213> Homo sapien (7547121-7-14093-14713)

<220>  
 <221> VARIANT  
 <222> (1)...(307)  
 <223> Xaa = Any Amino Acid

<400> 2164  
 Leu Ile Leu Ile Ser Leu Xaa Val Leu Ile Ser Xaa Gln Lys Leu Leu  
 1 5 10 15  
 Phe Val Thr Cys Leu Val Val Tyr Leu Val Thr Leu Leu Gly Asn Arg  
 20 25 30  
 Ile Gln Ile Ile Pro Thr Leu Leu Val Ser His Leu Tyr Leu Cys His  
 35 40 45  
 Gly Asn Pro Ser Phe Leu Asp Ile Gly Leu Thr Ser Ser Phe Thr Pro  
 50 55 60  
 Ser Ile Leu Ile Asn Phe Leu Ser Glu Gly Lys Lys Leu Ser Phe Thr  
 65 70 75 80  
 Asp Cys Ile Ile Gln Met Ser Ile Phe Tyr Ser Met Gly Ser Thr Glu  
 85 90 95  
 Cys Val Leu Leu Ala Val Met Ala Tyr Asp Asn Cys Val Val Ile Ser  
 100 105 110  
 Lys Phe Leu Arg Tyr Pro Leu Ile Asn Lys Val Asn Lys Ile Lys  
 115 120 125  
 Lys Val Leu Cys Val Phe Met Ala Thr Val Ser Tyr Glu Leu Gly Phe  
 130 135 140  
 Leu Asn Arg Gln Asn Val Leu Ile Val Thr Tyr Ala Met His Phe Cys

```

145          150          155          160
Gly Lys His Ile Ile Asn His Phe Tyr Lys Ile Leu Gln Leu Met Pro
          165          170          175
Leu Ala Cys Ile Asp Ile Ser Leu Asn Glu Asn Ile Ile Ile Leu Gly
          180          185          190
Lys Val Asn Phe Ser Phe Thr Leu Leu Leu Pro Phe Gln Phe Phe Ile
          195          200          205
Phe Ser Phe Leu Tyr Phe His Leu Cys Cys Ile Glu Ile Asn Ser
          210          215          220
Ala Glu Gly Arg Lys Lys Val Ser Ser Thr Cys Ser Ala His Ile Thr
225          230          235          240
Val Val Ile Val Phe His Arg Thr Ile Leu Phe Met Tyr Ile Lys Ser
          245          250          255
Thr Ser Asn Gly Thr Thr Ser Glu Lys Leu Val Asp Leu Phe Cys Gly
          260          265          270
Val Val Met Leu Met Leu Asn Leu Ile Ile Tyr Ser Leu Gly Asn Met
          275          280          285
Glu Val Leu Gly Val Met Lys Lys Leu Ile Ser Met Ser Arg Pro Trp
          290          295          300
Cys Trp Lys
305

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```

<210> 2165
<211> 214
<212> PRT
<213> Homo sapien (7622326-1-2092-6993)

```

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<220>
<221> VARIANT
<222> (1)...(214)
<223> Xaa = Any Amino Acid

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```

<400> 2165
Cys Leu Leu Xaa Leu Tyr Gln Val Cys Leu Leu Thr Arg Asp Pro Ile
1          5          10          15
Leu Gln Asp Leu His Xaa Lys Pro Arg Ile Tyr Cys Ser Pro Cys Leu
          20          25          30
Xaa Val Tyr Ser Leu Gly Leu Asp Arg Xaa Xaa Val Phe Leu Thr Met
          35          40          45
Thr Gln Ser Val Leu Trp Asn Glu Pro Val Cys Phe Met Phe Ser Xaa
          50          55          60
Met Pro Phe Cys Leu Ser Xaa Ile Leu Pro Xaa Thr Tyr Tyr Glu Gln
65          70          75          80
Val Val Met Leu Asn Leu Val Cys Ala Asp Ile Thr Tyr Ile Val His
          85          90          95
Thr Cys Gly Leu Phe Met Ala Phe Ser Val Asp Gly Phe Asp Ile Phe
          100          105          110
Gly Ile Ile Ile His Arg Tyr Gln Thr Leu Gln Ala Val Leu Xaa Leu
          115          120          125
Pro Ala Lys Glu Ser Val Pro Lys Val Phe Ser Ile Tyr Ala Phe His
          130          135          140
Ile Cys Val Thr Leu Tyr Leu Leu Met Ile Gly Phe Tyr Ser Phe Phe
145          150          155          160
Ser Cys Cys Phe Ser Tyr His Thr Leu Thr Val Ile Pro Ile Ser Phe
          165          170          175
Ser Ser Phe Tyr Ser Leu Val Pro Ser Met Phe Asn Thr Ile Thr Cys
          180          185          190
Gly Val Lys Ser Lys His Ile Gln Glu Asn Met Val Gln Arg Phe Cys
          195          200          205
Gly Lys Ile Ser Cys His
210

```

<210> 2166  
 <211> 321  
 <212> PRT  
 <213> Homo sapien (7622326-2-5218-6423)

<400> 2166  
 Met Thr Ile Leu Leu Asn Ser Ser Leu Gln Arg Ala Thr Phe Phe Leu  
 1 5 10 15  
 Thr Gly Phe Gln Gly Leu Glu Gly Leu His Gly Trp Ile Ser Ile Pro  
 20 25 30  
 Phe Cys Phe Ile Tyr Leu Thr Val Ile Leu Gly Asn Leu Thr Ile Leu  
 35 40 45  
 His Val Ile Cys Thr Asp Ala Thr Leu His Gly Pro Met Tyr Tyr Phe  
 50 55 60  
 Leu Gly Met Leu Ala Val Thr Asp Leu Gly Leu Cys Leu Ser Thr Leu  
 65 70 75 80  
 Pro Thr Val Leu Gly Ile Phe Trp Phe Asp Thr Arg Glu Ile Gly Ile  
 85 90 95  
 Pro Ala Cys Phe Thr Gln Leu Phe Phe Ile His Thr Leu Ser Ser Met  
 100 105 110  
 Glu Ser Ser Val Leu Leu Ser Met Ser Ile Asp Arg Ser Val Ala Val  
 115 120 125  
 Cys Asn Pro Leu His Asp Ser Thr Val Leu Thr Pro Ala Cys Ile Val  
 130 135 140  
 Lys Met Gly Leu Ser Ser Val Leu Arg Ser Ala Leu Leu Ile Leu Pro  
 145 150 155 160  
 Leu Pro Phe Leu Leu Lys Arg Phe Gln Tyr Cys His Ser His Val Leu  
 165 170 175  
 Ala His Ala Tyr Cys Leu His Leu Glu Ile Met Lys Leu Ala Cys Ser  
 180 185 190  
 Ser Ile Ile Val Asn His Ile Tyr Gly Leu Phe Val Val Ala Cys Thr  
 195 200 205  
 Val Gly Val Asp Ser Leu Leu Ile Phe Leu Ser Tyr Ala Leu Ile Leu  
 210 215 220  
 Arg Thr Val Leu Ser Ile Ala Ser His Gln Glu Arg Leu Arg Ala Leu  
 225 230 235 240  
 Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Leu Phe Tyr Ile Pro  
 245 250 255  
 Met Ile Gly Leu Ser Leu Val His Arg Phe Gly Glu His Leu Pro Arg  
 260 265 270  
 Val Val His Leu Phe Met Ser Tyr Val Tyr Leu Leu Val Pro Pro Leu  
 275 280 285  
 Met Asn Pro Ile Ile Tyr Ser Ile Lys Thr Lys Gln Ile Arg Gln Arg  
 290 295 300  
 Ile Ile Lys Lys Phe Gln Phe Ile Lys Ser Leu Arg Cys Phe Trp Lys  
 305 310 315 320  
 Asp

<210> 2167  
 <211> 345  
 <212> PRT  
 <213> Homo sapien (7622326-3-3672-5330)

<220>  
 <221> VARIANT  
 <222> (1)...(345)  
 <223> Xaa = Any Amino Acid

<400> 2167

```

Met His Leu Pro Asn Ser Ser Glu Ile Ala Ile Thr Thr Phe Phe Leu
 1      5      10      15
Ile Gly Ile Pro Gly Leu Glu His Ala His Ile Trp Ile Ser Val Pro
      20      25      30
Ile Cys Leu Met Tyr Leu Val Ala Ile Leu Gly Asn Cys Thr Ile Leu
      35      40      45
Phe Val Ile Arg Thr Glu Pro Ser Leu His Ala Pro Met Tyr Tyr Phe
      50      55      60
Leu Ser Met Leu Ala Val Ser Asp Leu Gly Leu Ser Leu Ser Tyr Leu
65      70      75      80
Pro Thr Met Leu Arg Ile Phe Val Phe Asn Ala Thr Gly Ile Ser Ser
      85      90      95
Asn Ala Arg Phe Ala Gln Glu Phe Phe Ile His Gly Phe Thr Asp Met
      100      105      110
Glu Ser Ser Val Leu Leu Val Met Ser Phe Asp Arg Phe Leu Ala Ile
      115      120      125
Cys His Pro Leu Arg Tyr Ile Ser Glu Val Leu Val Ser Cys Ile Leu
      130      135      140
Thr Ser Ala Arg Val Ala Lys Met Gly Leu Leu Phe Leu Ile Lys Arg
145      150      155      160
Glu Thr Thr Leu Asn Ser Leu Lys Glu Thr Thr Asn Ser Val Leu Leu
      165      170      175
Val Leu Pro Phe Pro Phe Thr Leu Thr Arg Leu Thr Tyr Cys Arg Lys
      180      185      190
Ser Leu Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Arg Lys Leu
      195      200      205
Ala Cys Ser Asp Asn Thr Val Asn Phe Phe Tyr Gly Phe Phe Leu Ala
      210      215      220
Leu Cys Met Met Ser Glu Ser Val Phe Ile Thr Val Ser Tyr Val Leu
225      230      235      240
Ile Leu Lys Thr Ile Met Gly Ile Gly Ser His Arg Glu Arg Leu Lys
      245      250      255
Ala Leu Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Ile Phe Tyr
      260      265      270
Ala Pro Val Ile Ala Leu Ala Ser Met His Cys Phe Ala Ser Met Asn
      275      280      285
Cys Phe Gly Lys His Arg Ser Pro Leu Ala Met Ile Leu Ile Ala Asp
      290      295      300
Val Phe Leu Leu Val Pro Pro Leu Met Asn Pro Ile Val Tyr Cys Val
305      310      315      320
Lys Thr Gln Gln Ile His Glu Lys Val Leu Gly Lys Leu Gly Leu Gln
      325      330      335
Gln Arg Cys Gln Xaa Thr Trp Tyr Lys
      340      345

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&lt;210&gt; 2168

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7622326-4-1-4013)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(325)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2168

```

Leu Thr Met Pro His Leu Ser Asn Thr Thr Ser Glu Phe Pro Ile Phe
 1      5      10      15
Leu Leu Thr Gly Phe Pro Gly Leu Glu Ala Phe His Ile Trp Ile Ser
      20      25      30
Ile Pro Phe Phe Leu Leu Ser Thr Val Ala Leu Leu Gly Asn Ser Met

```



```

      35      40      45
Ile Leu Leu Val Val Ile Leu Glu Pro Asn Leu His Glu Pro Met Tyr
  50      55      60
Cys Phe Leu Phe Met Leu Ser Ala Ala Asp Leu Gly Leu Thr Leu Ser
  65      70      75      80
Thr Met Pro Thr Thr Leu Ser Val Leu Trp Phe Ser Ala Arg Glu Ile
      85      90      95
Ile Leu Asn Ala Cys Ile Ile Gln Leu Phe Phe Leu His Ser Ser Gly
      100      105      110
Phe Met Glu Ser Ser Val Leu Met Ala Met Ala Phe Asp Arg Phe Val
      115      120      125
Ala Ile Cys Arg Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Ser Arg
      130      135      140
Ile Leu Lys Ile Gly Val Ala Ile Val Leu Arg Thr Leu Ile Ser Leu
  145      150      155      160
Ser Pro Ser Leu Phe Leu Ile Lys Arg Leu Ser Phe Cys Lys Val Asn
      165      170      175
Val Leu Ser His Ser Tyr Cys Phe His Pro Asp Ala Leu Lys Val Ala
      180      185      190
Cys Ser Asp Ser Arg Met Asn Ser Tyr Gly Gly Leu Ala Val Leu Ile
      195      200      205
Leu Val Thr Gly Val Gly Thr Pro Cys Val Ala Leu Ser Tyr Ile Leu
      210      215      220
Ile Ile His Ser Val Leu Asn Ile Ile Ser Ser Glu Gly Arg Arg Lys
  225      230      235      240
Ala Phe Asp Thr Cys Gly Ser His Ile Gly Ala Val Ala Val Phe Tyr
      245      250      255
Ile Pro Trp Val Val Leu Ser Val Val His Arg Phe Phe His Lys Ala
      260      265      270
Ser Pro Tyr Val His Pro Leu Leu Ser Asn Ile Tyr Phe Leu Gly Pro
      275      280      285
Ser Arg Leu Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Gln Ile Arg
      290      295      300
Arg Ala Ile Leu Lys Leu Phe Gln Thr Lys Ser Lys Glu Met Xaa Trp
  305      310      315      320
Gly Leu Phe Phe Leu
      325

```

&lt;210&gt; 2169

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7622326-7-11006-13674)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(319)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2169

```

Met Ser Pro Leu Asn Asp Thr Lys Met Glu Val Leu Arg Phe Leu Leu
  1      5      10      15
Ile Gly Ile Thr Gly Leu Glu Lys Ser Arg Thr Trp Ile Ser Ile Pro
      20      25      30
Phe Leu Ser Val Tyr Leu Leu Ser Trp Met Gly Asn Phe Thr Val Leu
      35      40      45
Phe Phe Ile Lys Thr Glu Gln Ser Leu His Glu Pro Met Tyr Tyr Leu
      50      55      60
Leu Ser Met Leu Ser Ile Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
  65      70      75      80
Pro Ile Thr Leu Gly Leu Phe Leu Phe Asp Val His Glu Ile His Ala
      85      90      95

```

Ala Pro Cys Phe Ala Xaa Glu Phe Phe Ile His Leu Phe Thr Val Ser  
 100 105 110  
 Glu Ala Ser Val Leu Ser Val Met Ala Phe Asp Trp Tyr Val Ala Ile  
 115 120 125  
 His Ser Pro Leu Arg Tyr Ser Thr Ile Leu Thr Ser Pro Arg Ala Ile  
 130 135 140  
 Lys Thr Gly Val Leu Leu Thr Ser Lys Asn Val Leu Leu Ile Leu Pro  
 145 150 155 160  
 Leu Pro Phe Leu Leu Gln Arg Leu Arg Tyr Cys His Gln Asn Leu Leu  
 165 170 175  
 Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Met Cys Ser  
 180 185 190  
 Asp Asn Thr Val Asn Val Val Tyr Gly Leu Cys Ala Gly Leu Ser Thr  
 195 200 205  
 Met Leu Asp Leu Val Phe Ile Thr Phe Ser Xaa Ile Met Ile Leu Arg  
 210 215 220  
 Ala Val Leu Gly Ile Ala Thr Pro Arg Gln Gln Phe Lys Ala Leu Asn  
 225 230 235 240  
 Thr Cys Ile Ser His Ile Cys Ala Val Leu Ile Phe Tyr Val Pro Met  
 245 250 255  
 Leu Ser Ala Ala Met Leu His Gln Phe Ala Arg Asp Val Ser Pro Met  
 260 265 270  
 Ile His Val Leu Met Ala Asp Ile Phe Leu Leu Val Pro Pro Leu Leu  
 275 280 285  
 Asn Pro Ile Val Tyr Cys Val Lys Thr His Gln Ile Arg Glu Lys Val  
 290 295 300  
 Val Gly Lys Leu Cys Pro Lys Val Ser Xaa Ser Lys Glu Xaa Glu  
 305 310 315

&lt;210&gt; 2170

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7622326-8-11210-13439)

&lt;400&gt; 2170

Met Ser Thr Leu Pro Thr Gln Ile Ala Pro Asn Ser Ser Thr Ser Met  
 1 5 10 15  
 Ala Pro Thr Phe Leu Leu Val Gly Met Pro Gly Leu Ser Gly Ala Pro  
 20 25 30  
 Ser Trp Trp Thr Leu Pro Leu Ile Ala Val Tyr Leu Leu Ser Ala Leu  
 35 40 45  
 Gly Asn Gly Thr Ile Leu Trp Ile Ile Ala Leu Gln Pro Ala Leu His  
 50 55 60  
 Arg Pro Met His Phe Phe Leu Phe Leu Leu Ser Val Ser Asp Ile Gly  
 65 70 75 80  
 Leu Val Thr Ala Leu Met Pro Thr Leu Leu Gly Ile Ala Leu Ala Gly  
 85 90 95  
 Ala His Thr Val Pro Ala Ser Ala Cys Leu Leu Gln Met Val Phe Ile  
 100 105 110  
 His Val Phe Ser Val Met Glu Ser Ser Val Leu Leu Ala Met Ser Ile  
 115 120 125  
 Asp Arg Ala Leu Ala Ile Cys Arg Pro Leu His Tyr Pro Ala Leu Leu  
 130 135 140  
 Thr Asn Gly Val Ile Ser Lys Ile Ser Leu Ala Ile Ser Phe Arg Cys  
 145 150 155 160  
 Leu Gly Leu His Leu Pro Leu Pro Phe Leu Leu Ala Tyr Met Pro Tyr  
 165 170 175  
 Cys Leu Pro Gln Val Leu Thr His Ser Tyr Cys Leu His Pro Asp Val  
 180 185 190  
 Ala Arg Leu Ala Cys Pro Glu Ala Trp Gly Ala Ala Tyr Ser Leu Phe  
 195 200 205

Val Val Leu Ser Ala Met Gly Leu Asp Pro Leu Leu Ile Phe Phe Ser  
 210 215 220  
 Tyr Gly Leu Ile Gly Lys Val Leu Gln Gly Val Glu Ser Arg Glu Asp  
 225 230 235 240  
 Arg Trp Lys Ala Gly Gln Thr Cys Ala Ala His Leu Ser Ala Val Leu  
 245 250 255  
 Leu Phe Tyr Ile Pro Met Ile Leu Leu Ala Leu Ile Asn His Pro Glu  
 260 265 270  
 Leu Pro Ile Thr Gln His Thr His Thr Leu Leu Ser Tyr Val His Phe  
 275 280 285  
 Leu Leu Pro Pro Leu Ile Asn Pro Ile Leu Tyr Ser Val Lys Met Lys  
 290 295 300  
 Glu Ile Arg Lys Arg Ile Leu Asn Arg Leu Gln Pro Arg Lys Val Gly  
 305 310 315 320  
 Gly Ala Gln

&lt;210&gt; 2171

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7631097-4-2553-4836)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(328)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2171

Met Leu Pro Ser Gln Thr Tyr Val Asn Ile Ser Phe Phe Gln Pro Pro  
 1 5 10 15  
 Ala Leu Leu Met Ile Gly Ile Pro Gly Leu Glu Ala Val His Gly Trp  
 20 25 30  
 Leu Ala Ile Pro Phe Ser Ser Met Tyr Thr Val Ala Leu Pro Gly Asn  
 35 40 45  
 Cys Leu Ile Leu Leu Ala Val Lys Arg Asn Pro Ser Leu His Gln Pro  
 50 55 60  
 Met Cys Tyr Phe Leu Ser Met Leu Ala Leu Pro Lys Ala Gly Leu Thr  
 65 70 75 80  
 Leu Ser Thr Leu Pro Ile Thr Leu Ala Val Leu Trp Phe Asp His Arg  
 85 90 95  
 Leu Met Gly Phe Asn Ala Cys Leu Val Gln Met Phe Phe Leu His Ser  
 100 105 110  
 Ser Val Val Glu Ser Ser Val Leu Ala Ile Ser Phe Asp His Phe  
 115 120 125  
 Val Ala Ile Ser Asn Pro Leu His Tyr Ala Ala Val Leu Thr Asn Ser  
 130 135 140  
 Val Ile Ile Arg Ile Gly Leu Ala Ile Val Ala Arg Ser Tyr Leu Val  
 145 150 155 160  
 Pro Leu Pro Val Pro Phe Pro Val Lys Ser Leu Asn Phe Cys Pro Gly  
 165 170 175  
 Asp Asn Ile Pro Ser His Ser Phe Cys Phe His Pro Asp Val Met Arg  
 180 185 190  
 Arg Ala Cys Ala Asp Ile Thr Ile Asn Ile Cys Tyr Gly Val Tyr Val  
 195 200 205  
 Val Val Ser Thr Gly Gly Leu Asp Ser Leu Leu Ile Phe Leu Ser Tyr  
 210 215 220  
 Thr Phe Ile Leu His Thr Val Met Gly Leu Ala Ala Pro Arg Glu Arg  
 225 230 235 240  
 Ile Trp Ala Leu Asn Thr Cys Val Ser His Ile Pro Ala Val Phe Val  
 245 250 255  
 Phe Phe Ile Pro Gly Ile Thr Val Ser Met Ile His His Phe Gly Arg

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<210> 2172
<211> 278
<212> PRT
<213> Homo sapien (7631097-7-11130-14291)
```

```
<210> 2173
<211> 319
<212> PRT
<213> Homo sapien (7631097-8-20107-27103)
```

1286

```

Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala
      20              25              30
Ile Ser Leu Ser Ala Met Tyr Ile Thr Ala Leu Leu Gly Asn Thr Leu
      35              40              45
Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr
      50              55              60
Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser
      65              70              75              80
Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile
      85              90              95
Ser Phe Ser Ala Cys Phe Thr Gln Met Phe Phe Val His Leu Ala Thr
      100             105             110
Ala Val Glu Thr Gly Leu Leu Leu Thr Met Ala Phe Asp Arg Tyr Val
      115             120             125
Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val
      130             135             140
Met Leu Gly Met Ser Met Ala Val Thr Ile Arg Ala Val Thr Phe Met
      145             150             155             160
Thr Pro Leu Ser Trp Met Met Asn His Leu Pro Phe Cys Gly Ser Asn
      165             170             175
Val Val Val His Ser Tyr Cys Lys His Ile Ala Leu Ala Arg Leu Ala
      180             185             190
Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser
      195             200             205
Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu
      210             215             220
Ile Leu Arg Ala Val Phe Asp Leu Ser Ser Lys Thr Ala Gln Leu Lys
      225             230             235             240
Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr
      245             250             255
Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Ile
      260             265             270
Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile
      275             280             285
Pro Ala Thr Leu Asn Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu
      290             295             300
Leu Glu Gly Ile Trp Ser Tyr Leu Met His Phe Leu Phe Asp His
      305             310             315

```

&lt;210&gt; 2174

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7637231-2-1-2470)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(311)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2174

```

Met Leu Thr Phe His Asn Val Cys Ser Val Pro Ser Ser Phe Trp Leu
  1              5              10              15
Thr Gly Ile Pro Gly Leu Glu Ser Leu His Val Trp Leu Ser Ile Pro
      20              25              30
Phe Gly Ser Met Tyr Leu Val Ala Val Val Gly Asn Val Thr Ile Leu
      35              40              45
Ala Val Val Lys Ile Glu Arg Ser Leu His Gln Pro Met Tyr Phe Phe
      50              55              60
Leu Cys Met Leu Ala Ala Ile Asp Leu Val Leu Ser Thr Ser Thr Ile
      65              70              75              80
Pro Lys Leu Leu Gly Ile Phe Trp Phe Gly Ala Cys Asp Ile Gly Leu

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```
<220>
<221> VARIANT
<222> (1) . . . (227)
```

<223> Xaa = Any Amino Acid

<400> 2176

```

Gly Lys Glu Arg Glu Thr Arg Val Trp Arg Pro Arg Ala Gln Asp Arg
 1          5          10          15
Gly Val Ser Thr Arg His Ala Ala Arg Val Thr Ser Tyr Gln Glu Cys
          20          25          30
Gly Val Arg Gly Gly Gly Val Leu Cys Gly Ala Val Arg Pro Ser Pro
          35          40          45
Leu Asp Ala Gln Leu His Asn Val Ile Ala Tyr Arg Arg Thr Cys Phe
 50          55          60
Lys Asp Val Glu Ile Pro Asn Phe Val Trp Asp Pro Ser Gln Leu Pro
 65          70          75          80
Arg Leu Ala Cys Cys Gly Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe
          85          90          95
Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser
          100          105          110
Tyr Asp Lys Ile Val Phe Ser Ile Leu Arg Val Ser Ser Ser Gly Gly
          115          120          125
Lys His Lys Ala Phe Ser Thr Arg Gly Ser His Leu Ser Val Val Cys
          130          135          140
Xaa Phe Tyr Gly Thr Gly Ile Gly Gly Tyr Leu Ser Ser Asp Val Ser
145          150          155          160
Ser Ser Pro Arg Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Ala
          165          170          175
Ile Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile
          180          185          190
Lys Ser Val Leu Arg Arg Pro His Gly Ser Thr Val Ser Ser Gln Tyr
          195          200          205
Leu Leu Ile Cys Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser
          210          215          220
Lys Val Lys
225

```

<210> 2177

<211> 316

<212> PRT

<213> Homo sapien (7655430-8-26100-29590)

<220>

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 2177

```

Ile Ser Met Phe Ser Cys Asn Thr Ser Thr Ser Gly Gln Ser Thr Phe
 1          5          10          15
Leu Leu Thr Gly Phe Pro Gly Leu Glu Ala Ser His His Trp Val Ser
          20          25          30
Ile Pro Ile Asn Leu Phe Cys Val Val Ser Ile Leu Gly Asn Asn Ile
          35          40          45
Ile Leu Phe Leu Ile His Thr Asp Pro Ala Leu His Glu Pro Met Tyr
          50          55          60
Ile Phe Leu Ser Met Leu Ala Ala Ser Asp Leu Gly Leu Cys Ala Ser
 65          70          75          80
Thr Phe Pro Thr Met Val Arg Leu Phe Trp Leu Gly Ala Arg Glu Leu
          85          90          95
Pro Phe Asp Leu Cys Ala Ala Gln Met Phe Phe Ile His Thr Phe Thr
          100          105          110
Tyr Val Glu Ser Gly Val Leu Leu Ala Met Ala Phe Asp Arg Phe Ile
          115          120          125

```

```

Ala Ile Arg Asp Pro Leu His Tyr Ala Ile Ile Ile Thr Cys Ser Val
 130                      135                      140
Thr Ala Glu Val Gly Thr Ala Ile Leu Val Arg Ala Val Leu Leu Asn
145                      150                      155                      160
Leu Pro Gly Pro Ile Leu Leu Gln Gln Leu Leu Phe Pro Lys Ile Ser
                      165                      170                      175
Ala Leu Cys His Cys Tyr Cys Leu His Cys Asp Leu Val Gly Leu Ala
                      180                      185                      190
Cys Ser Asp Thr Gln Ile Asn Ser Leu Val Gly Leu Val Ser Ile Leu
                      195                      200                      205
Phe Ser Leu Cys Leu Asp Ser Phe Leu Ile Met Leu Ser Tyr Ala Leu
210                      215                      220
Ile Leu Xaa Thr Val Leu Gly Ile Ala Ser Pro Gly Glu Arg Leu Lys
225                      230                      235                      240
Ala Leu Asn Thr Cys Val Ser His Leu Cys Ile Val Leu Ile Phe Tyr
                      245                      250                      255
Leu Pro Ile Ile Gly Leu Ser Val Leu His Arg Val Lys Lys His Asp
260                      265                      270
Tyr Pro Ala Leu Ala Val Leu Met Ala Asn Leu His Phe Leu Val Pro
275                      280                      285
Pro Phe Met Asn Pro Ile Val Tyr Cys Ile Lys Ser Arg Gln Ile Arg
290                      295                      300
Gln Ser Leu Leu Lys His Phe Gln Gln Lys Arg Ile
305                      310                      315

```

&lt;210&gt; 2178

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7657777-15-1-798)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(154)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2178

```

Cys Thr Met Cys Val Trp Leu Leu Ala Xaa Asp Arg Gln Ile His Ile
 1                      5                      10                      15
His Ser His Ser Asn Lys Pro Lys Gln Val Thr His Pro Met Cys Phe
20                      25                      30
Trp Asp Lys Asp Val His Ser Ser Trp Ala Trp Gly Cys Gly Tyr Arg
35                      40                      45
Lys Gly Asn Lys Phe Phe Leu Ser Tyr Asp Thr Leu Cys Pro Pro Lys
50                      55                      60
Val Ile His Pro Phe Arg Xaa Gln Leu Phe Leu Ser Ser Ser Asp Ile
65                      70                      75                      80
Ile Asn Asp Pro His Ile Asp Lys His Asp Ser Thr Leu Ile Thr Leu
85                      90                      95
Xaa Ala Phe Tyr Thr Ile Phe Tyr Lys Pro Thr Met Leu His Leu Phe
100                      105                      110
Ser Glu Ile Leu Ser Met Ile Tyr Phe Met Gly Thr Lys Lys Asn Glu
115                      120                      125
Xaa Lys Pro Arg Lys Lys Asp Cys Glu Ser His Xaa Lys Gly Leu Glu
130                      135                      140
Xaa Met Gly Gln Ile Ile Ile Leu Phe Tyr
145                      150

```

&lt;210&gt; 2179

&lt;211&gt; 170

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7657777-22-544-1713)



<220>  
 <221> VARIANT  
 <222> (1)...(170)  
 <223> Xaa = Any Amino Acid

<400> 2179  
 His Thr Gln Pro Arg Gly Leu Thr Arg Val Xaa Glu Phe Leu Leu Leu  
 1 5 10 15  
 Gly Leu Ser Gln Asp Pro Gln Leu Gln Pro Val Leu Ser Gly Leu Ser  
 20 25 30  
 Leu Cys Met Cys Leu Gly Thr Gln Leu Gly Asn Leu Leu Ile Ile Leu  
 35 40 45  
 Gly Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Ser Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Gly Ala Asp Ile Ser Phe Thr Ser Thr Thr Gly Pro  
 65 70 75 80  
 Lys Leu Ile Val Asp Ile His Ser Tyr Thr Arg Asp Ile Ser Tyr Ala  
 85 90 95  
 Arg Cys Leu Thr His Thr Pro Leu Phe Ala Ile Phe Gly Gly Val Glu  
 100 105 110  
 Arg Asp Met Leu Leu Arg Val Met Gly Tyr Asp Arg Val Val Asp Ile  
 115 120 125  
 Cys Asp Pro Leu Tyr His Ser His Ala Met Asn Pro Cys Val Cys Gly  
 130 135 140  
 Ser Leu Asp Leu Trp Ser Leu Phe Phe Leu Thr Leu Leu Tyr Thr His  
 145 150 155 160  
 Leu His Asn Ser Ile Ala Leu His Met Thr  
 165 170

<210> 2180  
 <211> 198  
 <212> PRT  
 <213> Homo sapien (7657777-42-1-597)

<220>  
 <221> VARIANT  
 <222> (1)...(198)  
 <223> Xaa = Any Amino Acid

<400> 2180  
 Met Asn Pro Cys Leu Cys Gly Phe Arg Val Val Val Ser Phe Phe Phe  
 1 5 10 15  
 His Ser Leu Leu Gly Ala Gln Val His Asn Leu Ser Ala Ser Gln Met  
 20 25 30  
 Thr Cys Phe Glu Tyr Val Glu Ile His Asn Phe Leu Trp Ala Leu Ser  
 35 40 45  
 Gln Leu Pro His Arg Ala Trp Cys Asp Thr Phe Pro Asn Asn Ile Ile  
 50 55 60  
 Val Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ala Gly Thr  
 65 70 75 80  
 Leu Phe Ser Xaa Tyr Glu Ser Val Ser Ser Ile Glu Arg Val Ser Ser  
 85 90 95  
 Xaa Gly Gly Glu Tyr Lys Ala Phe Pro Thr Cys Gly Ser His Leu Ser  
 100 105 110  
 Val Val Cys Xaa Leu Tyr Gly Thr Gly Val Gly Gly His Leu Ser Ser  
 115 120 125  
 Asp Val Ser Ser Ser Pro Arg Lys Ser Ala Val Ala Ser Val Met Tyr  
 130 135 140  
 Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Met Arg Asn  
 145 150 155 160

[illegible]

```
<210> 2181
<211> 199
<212> PRT
<213> Homo sapien (7657788-15-11714-13012)
```

```
<220>  
<221> VARIANT  
<222> (1)...(199)  
<223> Xaa = Any Amino Acid
```

[illegible]

```
<210> 2182
<211> 324
<212> PRT
<213> Homo sapien (7658481-16-11475-15098)
```

```
<220>
<221> VARIANT
<222> (1)...(324)
<223> Xaa = Any Amino Acid
```

```

<400> 2182
Met Ser Asp Ser Asn Leu Ser Asp Asn His Leu Pro Asp Thr Phe Phe
 1          5          10          15
Leu Thr Gly Ile Pro Gly Leu Glu Ala Ala His Phe Trp Ile Ala Ile
      20          25          30
Pro Phe Cys Ala Met Tyr Leu Val Ala Leu Val Gly Asn Ala Ala Leu

```

```

      35      40      45
Ile Leu Val Ile Ala Met Asp Asn Ala Leu His Ala Pro Met Tyr Leu
  50      55      60
Phe Leu Cys Leu Leu Ser Leu Thr Asp Leu Ala Leu Ser Ser Thr Thr
  65      70      75      80
Val Pro Lys Met Leu Ala Ile Leu Trp Leu His Ala Gly Glu Ile Ser
      85      90      95
Phe Gly Gly Cys Leu Ala Gln Met Phe Cys Val His Ser Ile Tyr Ala
      100      105      110
Leu Glu Ser Ser Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
      115      120      125
Ile Cys Asn Pro Leu Arg Tyr Thr Thr Ile Leu Asn His Ala Val Ile
      130      135      140
Gly Arg Ile Gly Phe Val Gly Leu Phe Arg Ser Val Ala Ile Val Ser
  145      150      155      160
Pro Phe Ile Phe Leu Leu Arg Arg Leu Pro Tyr Cys Gly His Arg Val
      165      170      175
Met Thr His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys
      180      185      190
Ala Asn Ile Thr Val Asn Ile Val Tyr Gly Leu Thr Val Ala Leu Leu
      195      200      205
Ala Met Gly Leu Asp Ser Ile Leu Ile Ala Ile Ser Tyr Gly Phe Ile
      210      215      220
Leu His Ala Val Phe His Leu Pro Ser His Asp Ala Gln His Lys Ala
  225      230      235      240
Leu Ser Thr Cys Gly Ser His Ile Gly Ile Ile Leu Val Phe Tyr Ile
      245      250      255
Pro Ala Phe Phe Ser Phe Leu Thr His Arg Phe Gly His His Glu Val
      260      265      270
Pro Lys His Val His Ile Phe Leu Ala Asn Leu Tyr Val Leu Val Pro
      275      280      285
Pro Val Leu Asn Pro Ile Leu Tyr Gly Ala Arg Thr Lys Glu Ile Arg
      290      295      300
Ser Arg Leu Leu Lys Leu Leu His Leu Gly Lys Thr Ser Ile Xaa Met
  305      310      315      320
Leu Ser Arg Ser

```

&lt;210&gt; 2183

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7658481-18-4217-6941)

&lt;400&gt; 2183

```

Met Ser Gln Val Thr Asn Thr Thr Gln Glu Gly Ile Tyr Phe Ile Leu
  1      5      10      15
Thr Asp Ile Pro Gly Phe Glu Ala Ser His Ile Trp Ile Ser Ile Pro
      20      25      30
Val Cys Cys Leu Tyr Thr Ile Ser Ile Met Gly Asn Thr Thr Ile Leu
      35      40      45
Thr Val Ile Arg Thr Glu Pro Ser Val His Gln Arg Met Tyr Leu Phe
      50      55      60
Leu Ser Met Leu Ala Leu Thr Asp Leu Gly Leu Thr Leu Thr Thr Leu
  65      70      75      80
Pro Thr Val Met Gln Leu Leu Trp Phe Asn Val Arg Arg Ile Ser Ser
      85      90      95
Glu Ala Cys Phe Ala Gln Phe Phe Phe Leu His Gly Phe Ser Phe Met
      100      105      110
Glu Ser Ser Val Leu Leu Ala Met Ser Val Asp Cys Tyr Val Ala Ile
      115      120      125
Cys Cys Pro Leu His Tyr Ala Ser Ile Leu Thr Asn Glu Val Ile Gly

```

```

      130              135              140
Arg Thr Gly Leu Ala Ile Ile Cys Cys Cys Val Leu Ala Val Leu Pro
145              150              155              160
Ser Leu Phe Leu Leu Lys Arg Leu Pro Phe Cys His Ser His Leu Leu
      165              170              175
Ser Arg Ser Tyr Cys Leu His Gln Asp Met Ile Arg Leu Val Cys Ala
      180              185              190
Asp Ile Arg Leu Asn Ser Trp Tyr Gly Phe Ala Leu Ala Leu Ile
      195              200              205
Ile Ile Val Asp Pro Leu Leu Ile Val Ile Ser Tyr Thr Leu Ile Leu
      210              215              220
Lys Asn Ile Leu Gly Thr Ala Thr Trp Ala Glu Arg Leu Arg Ala Leu
225              230              235              240
Asn Asn Cys Leu Ser His Ile Leu Ala Val Leu Val Leu Tyr Ile Pro
      245              250              255
Met Val Gly Val Ser Met Thr His Arg Phe Ala Lys His Ala Ser Pro
      260              265              270
Leu Val His Val Ile Met Ala Asn Ile Tyr Leu Leu Ala Pro Pro Val
      275              280              285
Met Asn Pro Ile Ile Tyr Ser Val Lys Asn Lys Gln Ile Gln Trp Gly
      290              295              300
Met Leu Asn Phe Leu Ser Leu Lys Asn Met His Ser Arg
305              310              315

```

&lt;210&gt; 2184

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7658481-19-24037-28136)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2184

```

Phe Ser Gln Asn Leu Leu Ile Ser Gly Ser Gly Ser Phe Val Leu Leu
1      5      10
Gly Met Pro Gly Leu Glu Ala Leu His Ala Trp Leu Ser Val Leu Val
      20      25      30
Cys Leu Leu Tyr Met Ala Ala Leu Val Gly Asn Ala Leu Leu Val Gly
      35      40      45
Leu Val Val Thr Asp Lys Ala Leu Trp Ala Pro Met Tyr Gln Leu Leu
      50      55      60
Trp Leu Leu Ala Ala Ala Asp Phe Val Leu Ala Thr Ser Thr Val Pro
65      70      75      80
Lys Ala Leu Ala Val Leu Trp Gly Leu Ser Ser Glu Ile Ser Phe Gly
      85      90      95
Gly Cys Leu Ala Gln Leu Phe Val Ala His Ser Val Asn His Cys His
      100      105      110
Ile Ala Glu Ser Ser Val Leu Leu Ser Thr Ala Val Asp Cys Gln Pro
      115      120      125
Leu Arg Tyr Gly Ala Leu Leu Ala Gln Phe Val Val Gly Leu Val Ala
      130      135      140
Leu Thr Thr Met Thr Arg Asp Val Cys Val Met Tyr Thr Leu Xaa Phe
145      150      155      160
Leu Phe Lys Lys Leu Pro Tyr Cys Gly Gln Trp Ala Leu Thr His Thr
      165      170      175
Tyr Cys Glu His Met Gly Val Ala Cys Leu Ala Cys Gly Asp Thr Cys
      180      185      190
Pro Ile Ile Arg Tyr Gly Leu Ala Thr Thr Leu Leu Ser Pro Ala Leu
      195      200      205

```

```

Asp Leu Gly Leu Ile Gly Ala Ser Tyr Ala Leu Ile Phe Arg Ala Val
 210                215                220
Cys Arg Leu Pro Ser His Val Ala Cys His Lys Ala Leu Gly Asn Cys
 225                230                235                240
Gly Thr Tyr Ala Ser Ile Ile Gly Leu Phe Tyr Thr Pro Ala Leu Phe
                245                250                255
Ser Phe Leu Ala His Cys Phe Gly Cys His Thr Val Pro Asn His Ile
                260                265                270
His Ile Leu Leu Ala Asn Leu Tyr Ala Val Val Phe Pro Ala Phe Asn
                275                280                285
Pro Val Val Tyr Gly Val Gln Thr Gln Gln Ser Ser Glu Ala Gln Glu
 290                295                300
Leu Ala Ser Thr Phe Leu Gly Arg Ser Ser Glu
 305                310                315

```

&lt;210&gt; 2185

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7658481-19-6742-9039)

&lt;400&gt; 2185

```

Met Pro Ser Ala Ser Ala Met Ile Ile Phe Asn Leu Ser Ser Tyr Asn
 1                5                10                15
Pro Gly Pro Phe Ile Leu Val Gly Ile Pro Gly Leu Glu Gln Phe His
                20                25                30
Val Trp Ile Gly Ile Pro Phe Cys Ile Ile Tyr Ile Val Ala Val Val
 35                40                45
Gly Asn Cys Ile Leu Leu Tyr Leu Ile Val Val Glu His Ser Leu His
 50                55                60
Glu Pro Met Phe Phe Phe Leu Ser Met Leu Ala Met Thr Asp Leu Ile
 65                70                75                80
Leu Ser Thr Ala Gly Val Pro Lys Ala Leu Ser Ile Phe Trp Leu Gly
                85                90                95
Ala Arg Glu Ile Thr Phe Pro Gly Cys Leu Thr Gln Met Phe Phe Leu
                100                105                110
His Tyr Asn Phe Val Leu Asp Ser Ala Ile Leu Met Ala Met Ala Phe
                115                120                125
Asp His Tyr Val Ala Ile Cys Ser Pro Leu Arg Tyr Thr Thr Ile Leu
 130                135                140
Thr Pro Lys Thr Ile Ile Lys Ser Ala Met Gly Ile Ser Phe Arg Ser
 145                150                155                160
Phe Cys Ile Ile Leu Pro Asp Val Phe Leu Leu Thr Cys Leu Pro Phe
                165                170                175
Cys Arg Thr Arg Ile Ile Pro His Thr Tyr Cys Glu His Ile Gly Val
                180                185                190
Ala Gln Leu Ala Cys Ala Asp Ile Ser Ile Asn Phe Trp Tyr Gly Phe
                195                200                205
Cys Val Pro Ile Met Thr Val Ile Ser Asp Val Ile Leu Ile Ala Val
 210                215                220
Ser Tyr Ala His Ile Leu Cys Ala Val Phe Gly Leu Pro Ser Gln Asp
 225                230                235                240
Ala Cys Gln Lys Ala Leu Gly Thr Cys Gly Ser His Val Cys Val Ile
                245                250                255
Leu Met Phe Tyr Thr Pro Ala Phe Phe Ser Ile Leu Ala His Arg Phe
                260                265                270
Gly His Asn Val Ser Arg Thr Phe His Ile Met Phe Ala Asn Leu Tyr
                275                280                285
Ile Val Ile Pro Pro Ala Leu Asn Pro Met Val Tyr Gly Val Lys Thr
 290                295                300
Lys Gln Ile Arg Asp Lys Val Ile Leu Leu Phe Ser Lys Gly Thr Gly
 305                310                315                320

```

<210> 2186  
 <211> 315  
 <212> PRT  
 <213> Homo sapien (7658481-2-1-1440)

<220>  
 <221> VARIANT  
 <222> (1)...(315)  
 <223> Xaa = Any Amino Acid

<400> 2186  
 Met Gly Gly Phe Gly Thr Asn Ile Ser Ser Thr Thr Ser Phe Thr Leu  
 1 5 10 15  
 Thr Gly Phe Pro Glu Met Lys Gly Leu Glu His Trp Leu Ala Ala Leu  
 20 25 30  
 Leu Leu Leu Leu Cys Ala Ile Ser Phe Leu Gly Asn Ile Leu Ile Leu  
 35 40 45  
 Phe Ile Ile Lys Glu Glu Gln Ser Leu His Gln Pro Met Tyr Tyr Phe  
 50 55 60  
 Leu Ser Leu Phe Ser Val Asn Asp Leu Gly Val Ser Phe Ser Thr Leu  
 65 70 75 80  
 Pro Thr Val Leu Ala Ala Val Cys Phe His Ala Pro Glu Thr Thr Phe  
 85 90 95  
 Asp Ala Cys Leu Ala Gln Thr Phe Phe Ile His Phe Ser Ser Trp Thr  
 100 105 110  
 Glu Phe Gly Ile Leu Leu Ala Met Ser Phe Asp His Tyr Val Ala Ile  
 115 120 125  
 Cys Asn Pro Leu Arg Tyr Ala Thr Val Leu Thr Asp Val Arg Val Ala  
 130 135 140  
 His Asn Gly Ile Ser Ile Val Ile Arg Ser Phe Cys Met Val Phe Pro  
 145 150 155 160  
 Leu Pro Phe Leu Leu Lys Arg Leu Pro Phe Cys Lys Ala Ser Val Val  
 165 170 175  
 Leu Ser His Ser Tyr Cys Leu His Ala Asp Leu Ile Arg Leu Pro Cys  
 180 185 190  
 Gly Asp Thr Thr Ile Asn Ser Met Tyr Gly Leu Phe Ile Val Ile Ser  
 195 200 205  
 Ala Phe Gly Val Asp Ser Leu Ile Leu Leu Ser Tyr Val Leu Ile  
 210 215 220  
 Leu His Ser Val Leu Ala Ile Ala Ser Arg Gly Glu Arg Leu Lys Thr  
 225 230 235 240  
 Leu Asn Thr Cys Val Ser His Ile Tyr Ala Val Leu Ile Phe Tyr Val  
 245 250 255  
 Pro Met Val Ser Val Ser Met Val His Arg Phe Gly Arg His Ala Pro  
 260 265 270  
 Glu Tyr Val His Lys Phe Met Ser Ser Leu Tyr Leu Pro Met Leu Tyr  
 275 280 285  
 Pro Ile Ile Tyr Ser Ile Lys Thr Lys Glu Ile Arg Arg Arg Leu His  
 290 295 300  
 Lys Met Leu Leu Gly Ala Lys Phe Xaa Ser Lys  
 305 310 315

<210> 2187  
 <211> 124  
 <212> PRT  
 <213> Homo sapien (7658497-19-2333-3610)

<220>  
 <221> VARIANT  
 <222> (1)...(124)

<223> Xaa = Any Amino Acid

<400> 2187

```

Leu Ile Leu Ser Ala Gln Ile Cys Arg Ala Leu Xaa Leu Ser Ile Phe
 1           5           10           15
Leu Val Arg Leu His Phe Lys Lys Leu Gly Pro Lys Ser Leu Asp Leu
           20           25           30
Tyr Phe Pro Gly Leu Gly Leu Lys Tyr Lys Ile Asn Ser Thr Asn Asn
           35           40           45
Tyr Arg Thr Ala Leu Glu Phe Xaa Val Phe Arg Gln Ala Val Xaa Leu
           50           55           60
Xaa Phe Thr Phe Phe Leu Phe Lys Tyr Ser Cys Leu Ser Lys Pro Gln
65           70           75           80
Xaa Glu Xaa Gly Ser Ser Asp Xaa Val Pro Cys Gln Tyr Ser Arg Cys
           85           90           95
Ser Glu His Asn Val Ala Leu Leu Ser Pro Gly Phe Ile Val Met Xaa
           100          105          110
Val Leu Val Gln Leu Pro Leu Phe Ser Phe Thr Ser
           115          120

```

<210> 2188

<211> 278

<212> PRT

<213> Homo sapien (7670214-14-2036-3224)

<400> 2188

```

Met Leu Leu Gly Asn Leu Ala Ile Ile Ser Phe Ile Cys Leu Asp Ser
 1           5           10           15
Arg Leu His Ser Pro Met Tyr Phe Phe Leu Cys Asn Phe Ser Leu Met
           20           25           30
Glu Met Val Val Thr Ser Thr Val Val His Arg Met Leu Ala Asp Leu
           35           40           45
Leu Ser Thr His Lys Thr Met Ser Leu Ala Lys Cys Leu Thr Gln Ser
           50           55           60
Phe Phe Tyr Phe Ser Leu Gly Ser Ala Asn Phe Phe Ile Leu Met Val
65           70           75           80
Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro
           85           90           95
Thr Ile Thr Asn Gly Pro Val Cys Val Lys Leu Val Val Ala Cys Trp
           100          105          110
Val Val Gly Phe Leu Ser Ile Val Ser Pro Thr Leu Gln Lys Thr Arg
           115          120          125
Leu Trp Phe Cys Gly Pro Asn Ile Ile Gly His Tyr Phe Cys Asp Ser
           130          135          140
Ala Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr Arg His Ile Glu Arg
145           150          155          160
Met Asp Leu Phe Leu Ser Leu Leu Phe Val Leu Thr Thr Met Leu Leu
           165          170          175
Ile Ile Leu Ser Tyr Ile Leu Ile Val Ala Ala Val Leu His Ile Pro
           180          185          190
Ser Ser Ser Gly Cys Gln Lys Ala Phe Ser Thr Cys Ala Ser His Leu
           195          200          205
Thr Val Val Val Leu Gly Tyr Gly Ser Ala Ile Phe Ile Tyr Val Arg
210           215          220
Pro Gly Lys Gly His Ser Thr Tyr Leu Asn Lys Ala Val Ala Met Val
225           230          235          240
Thr Ala Met Val Thr Pro Phe Leu Asn Pro Phe Ile Phe Thr Phe Arg
           245          250          255
Asn Glu Lys Val Lys Glu Val Ile Glu Asp Val Thr Lys Arg Ile Phe
           260          265          270
Leu Gly Asp Pro Ala Ala

```

275

<210> 2189  
 <211> 203  
 <212> PRT  
 <213> Homo sapien (7670214-23-12266-12905)

<220>  
 <221> VARIANT  
 <222> (1)...(203)  
 <223> Xaa = Any Amino Acid

<400> 2189  
 Pro Leu Ile Xaa Pro Asp Pro Phe Ile Phe Thr Gln Leu Cys Ser Phe  
 1 5 10 15  
 Leu Asn Lys Tyr Val Ala Ser Thr Arg Leu Asn Asp His Asn Ile Asp  
 20 25 30  
 Gln Ala Pro Xaa Ser Arg Ser Ile Ile Leu Asn Leu Cys Leu Ile Ser  
 35 40 45  
 Phe Gly Ile Lys Gly Met Trp Ser Asn Val Asn Ser Cys Phe Leu Ser  
 50 55 60  
 Ser Leu Pro Arg Glu Lys Glu Leu Gly Leu Lys Ser Glu Gly Asn Tyr  
 65 70 75 80  
 Ser Ser Ala Thr Gln Phe Cys Leu Leu Gly Phe Pro Gly Phe Glu Glu  
 85 90 95  
 Leu Pro His Phe Leu Leu Val Asn Phe Phe Phe His Leu Met Arg Leu  
 100 105 110  
 Met Gly Asn Ala Val Ile Tyr Met Val Arg Ile Asp Xaa Ser Leu Gln  
 115 120 125  
 Ser Pro Gly Asp Phe Phe Leu Ser Gln Leu Phe Ile Phe Ser His Ser  
 130 135 140  
 Leu Leu Met Asp Ile Ser Ile Val Ile Ala Ser Leu Ile Gln Ile Asp  
 145 150 155 160  
 Ser Tyr Ser Ser Ile Pro Ser Ala Ser Gly Gln Lys Lys Ser Phe Ser  
 165 170 175  
 Thr His Ala Ser His Phe Thr Cys Val Gly Ile Asp Tyr Asp Ser Cys  
 180 185 190  
 Leu Phe Leu Tyr Val Lys Pro Lys Gln Ile Trp  
 195 200

<210> 2190  
 <211> 321  
 <212> PRT  
 <213> Homo sapien (7671636-1-417-2747)

<220>  
 <221> VARIANT  
 <222> (1)...(321)  
 <223> Xaa = Any Amino Acid

<400> 2190  
 Phe Lys Arg Ser Ile Thr Phe Thr Pro Thr Thr Phe Thr Leu Val Gly  
 1 5 10 15  
 Ile Pro Gly Leu Glu Ala Glu His Tyr Trp Ile Ser Ile Pro Phe Cys  
 20 25 30  
 Leu Ile Tyr Thr Ile Ile Phe Pro Gly Asn Gly Ile Ile Leu His Ile  
 35 40 45  
 Ile Arg Ile Asp Ser Ser Leu His Gln Pro Met Tyr Tyr Phe Leu Ala  
 50 55 60  
 Met Pro Ala Phe Val Glu Leu Gly Val Ser Ala Ser Thr Met Pro Thr  
 65 70 75 80



Val Leu Ser Ile Phe Leu Phe Gly Ile Asn Asp Val Ser Phe Gly Gly  
                     85                    90                    95  
 Cys Leu Leu Gln Met Phe Ser Met His Ser Phe Thr Leu Met Glu Ser  
                     100                    105                    110  
 Gly Val Leu Leu Ala Met Ser Val Asp Arg Phe Val Ala Ile Tyr Ser  
                     115                    120                    125  
 Pro Leu Arg Tyr Thr Thr Ile Leu Thr Ile Ala Cys Ile Ser Gly Met  
                     130                    135                    140  
 Gly Ala Ala Ile Ala Leu Arg Ser Val Met Leu Met Leu Pro Leu Leu  
 145                    150                    155                    160  
 Phe Leu Leu Arg Arg Leu Pro Phe Cys Gly His Asn Thr Leu Thr His  
                     165                    170                    175  
 Ser Tyr Cys Leu His Ser Asp Leu Ile Lys Leu Pro Cys Gly Asp Thr  
                     180                    185                    190  
 Arg Pro Asn Ser Ile Leu Ala Leu Phe Val Ile Thr Phe Thr Phe Gly  
                     195                    200                    205  
 Leu Asp Leu Leu Phe Ile Val Val Ser Tyr Val Leu Ile Leu His Thr  
                     210                    215                    220  
 Val Leu Glu Ile Ala Ser Arg Ser Arg Ala Trp Gln Ala Leu Asn Thr  
 225                    230                    235                    240  
 Cys Val Ser His Ile Cys Ala Val Leu Val Tyr Tyr Val Pro Met Ile  
                     245                    250                    255  
 Ser Leu Ser Xaa Val His Arg Phe Gly Arg His Leu Pro Pro Leu Phe  
                     260                    265                    270  
 Gln Thr Val Thr Ala Asn Ala Tyr Leu Phe Phe Pro Pro Val Val Asn  
                     275                    280                    285  
 Pro Ile Val Tyr Ser Ile Lys Ile Lys Glu Ile Arg Asn Ser Val Val  
                     290                    295                    300  
 Leu Thr Leu Ser Arg Lys Arg Gly Glu Phe Xaa Trp Arg Pro Lys Ile  
 305                    310                    315                    320  
 Pro

&lt;210&gt; 2191

&lt;211&gt; 295

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7690091-1-489-1697)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(295)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2191

Ile Gln Cys Lys Gly Xaa Xaa Lys Xaa Ile Lys Thr Phe Ser Val Thr  
 1                    5                    10                    15  
 Pro Ile Leu Asn Gly Asn Arg Glu Ile Ala Arg Phe Leu Ser Asn Leu  
                     20                    25                    30  
 Ser Leu Ala Gly Ile Gly Phe Pro Ser Thr Ile Val Ser Lys Met Ile  
                     35                    40                    45  
 Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu  
                     50                    55                    60  
 Thr Gln Val Ser Leu Phe Ala Val Phe Gly Cys Met Glu Asp Met Leu  
 65                    70                    75                    80  
 Leu Ser Val Met Ala Tyr Asp Arg Phe Val Asp Ile Cys His Pro Leu  
                     85                    90                    95  
 Asp Tyr Pro Val Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu  
                     100                    105                    110  
 Leu Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Asn Trp Ile  
                     115                    120                    125  
 Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe

130	135	140
Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr		
145	150	155
Asn Asp Ile Val Met Tyr Phe Leu Ala Ala Ile Phe Gly Phe Leu Pro		160
	165	170
Ile Ser Gly Thr Phe Phe Ser Tyr Tyr Lys Ile Val Ser Ser Ile Leu		175
	180	185
Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly		190
	195	200
Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr Gly Phe Gly Gly		205
	210	215
Asp Leu Ser Ser Asp Met Ser Ser Tyr Pro Arg Lys Gly Ala Val Ala		220
225	230	235
Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr		240
	245	250
Ser Arg Asn Arg Glu Ile Lys Ser Ala Leu Arg Gln Leu His Cys Arg		255
	260	265
Ile Val Xaa Ser His Phe Leu Ile Ile Cys Ser Ile Pro Ser Val Val		270
	275	280
Xaa Val Arg Lys Gly Ser Lys		285
290	295	

&lt;210&gt; 2192

&lt;211&gt; 197

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7705148-11-94-972)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(197)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2192

Ala Ala Met Ala Xaa Asp Arg Tyr Ile Ala Ile Cys Asn Pro Leu Leu	
1	5
Tyr Thr Val Ile Met Ser Lys Lys Val Cys Cys Gln Leu Ala Ile Gly	10
	15
	20
Ala Phe Leu Gly Gly Thr Met Ser Ile Ile His Thr Thr Asn Thr	25
	30
	35
Phe His Leu Ser Phe Cys Ser Arg Asp Ile Asn His Phe Phe Cys Asp	40
	45
	50
Ile Ser Pro Leu Phe Ser Leu Ser Cys Thr Asp Thr Tyr Met His Asp	55
65	60
	65
Ile Ile Leu Val Val Phe Ala Ser Phe Val Glu Ala Ile Cys Leu Leu	70
	75
	80
	85
Ser Val Leu Leu Ser Tyr Val Phe Ile Met Ala Ala Ile Leu Arg Thr	90
	95
	100
Gly Ser Val Glu Gly Arg Arg Arg Gly Phe Ser Thr Cys Ala Ser His	105
	110
	115
Leu Thr Val Val Thr Met Tyr His Gly Thr Leu Ile Phe Ile Tyr Leu	120
	125
	130
Arg Pro Ser Thr Gly His Ser Leu Asp Ile Asp Lys Val Thr Ser Val	135
145	140
	145
Phe Tyr Thr Leu Ile Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu	150
	155
	160
	165
Arg Asn Lys Asp Val Lys Asn Ala Phe Arg Lys Val Ile Gly Arg Lys	170
	175
	180
Leu Leu Pro Xaa Gly	185
	190
	195

&lt;210&gt; 2193

<211> 128  
 <212> PRT  
 <213> Homo sapien (7705148-13-12855-13510)

<220>  
 <221> VARIANT  
 <222> (1)...(128)  
 <223> Xaa = Any Amino Acid

<400> 2193  
 Ser Arg Ser Asp Thr Gln Val Asn Glu Leu Val Leu Phe Thr Val Phe  
 1 5 10 15  
 Gly Phe Ile Glu Leu Ser Thr Ile Ser Gly Val Phe Ile Ser Tyr Cys  
 20 25 30  
 Tyr Ile Ile Leu Ser Val Leu Glu Ile His Ser Ala Glu Gly Arg Phe  
 35 40 45  
 Lys Ala Leu Ser Thr Cys Thr Ser His Leu Ser Ala Val Ala Ile Phe  
 50 55 60  
 Gln Gly Thr Leu Leu Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser  
 65 70 75 80  
 Leu Asp Gln Asp Lys Met Thr Ser Leu Phe Tyr Thr Leu Val Val Pro  
 85 90 95  
 Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu  
 100 105 110  
 Ala Leu Lys Lys Leu Lys Asn Lys Ile Leu Phe Xaa Gly Asn Ser Lys  
 115 120 125

<210> 2194  
 <211> 208  
 <212> PRT  
 <213> Homo sapien (7705148-18-30183-31440)

<220>  
 <221> VARIANT  
 <222> (1)...(208)  
 <223> Xaa = Any Amino Acid

<400> 2194  
 Met Glu Leu Glu Asn Gly Thr Val Lys Thr Gly Phe Phe Leu Leu Gly  
 1 5 10 15  
 Phe Ser Asp His Leu Glu Leu Gln Ser Leu Leu Phe Ala Glu Phe Phe  
 20 25 30  
 Ser Ile Tyr Ser Val Thr Leu Met Gly Asn Leu Gly Met Ile Leu Leu  
 35 40 45  
 Ile Thr Ile Ser Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Cys  
 50 55 60  
 Val Leu Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Ile Ala Pro Lys  
 65 70 75 80  
 Leu Leu Val Asn Leu Val Ser Glu Lys Lys Thr Ile Ser Tyr Asn Gly  
 85 90 95  
 Cys Val Ala Gln Leu Tyr Phe Phe Cys Ser Leu Val Asp Thr Glu Ser  
 100 105 110  
 Phe Leu Leu Ala Ala Met Ala Xaa Asp Arg Tyr Ile Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Thr Val Ile Met Ser Lys Lys Val Cys Cys Gln Leu  
 130 135 140  
 Ala Ile Gly Ala Phe Leu Gly Gly Thr Met Ser Ser Ile Ile His Thr  
 145 150 155 160  
 Thr Asn Thr Phe His Leu Ser Phe Cys Ser Arg Asp Ile Asn His Phe  
 165 170 175  
 Phe Cys Asp Ile Ser Pro Leu Phe Ser Leu Ser Cys Thr Asp Thr Tyr

	180		185		190
Met His Asp	Ile Ile Leu Val	Val Phe Ala Ser Phe	Val Glu Ala Ile		
195		200		205	

<210> 2195  
 <211> 188  
 <212> PRT  
 <213> Homo sapien (7705148-8-1-2633)

<400> 2195

Met Asp Trp	Glu Asn Cys Ser Ser	Leu Thr Asp Phe Phe	Leu Leu Gly
1	5	10	15
Ile Thr Asn	Asn Pro Glu Met Lys	Val Thr Leu Phe Ala	Val Phe Leu
	20	25	30
Ala Val Tyr	Ile Ile Asn Phe Ser	Ala Asn Leu Gly Met	Ile Val Leu
	35	40	45
Ile Arg Met	Asp Tyr Gln Leu His	Thr Pro Met Tyr Phe	Phe Leu Ser
	50	55	60
His Leu Ser	Phe Cys Asp Leu Cys	Tyr Ser Thr Ala Thr	Gly Pro Lys
	65	70	75
Met Leu Val	Asp Leu Leu Ala Lys	Asn Lys Ser Ile Pro	Phe Tyr Gly
	85	90	95
Cys Ala Leu	Gln Phe Leu Val Phe	Cys Ile Phe Ala Asp	Ser Glu Cys
	100	105	110
Leu Leu Leu	Ser Val Met Ala Phe	Asp Arg Tyr Lys Ala	Ile Ile Asn
	115	120	125
Pro Leu Leu	Tyr Thr Val Asn Met	Ser Ser Arg Val Cys	Tyr Leu Leu
	130	135	140
Leu Thr Gly	Val Tyr Leu Val Gly	Ile Ala Asp Ala Leu	Ile His Met
	145	150	155
Thr Leu Ala	Phe Arg Leu Cys Phe	Cys Gly Ser Asn Glu	Ile Asn His
	165	170	175
Phe Phe Cys	Asp Ile Pro Pro Leu	Leu Leu Leu Ser	
	180	185	

<210> 2196  
 <211> 210  
 <212> PRT  
 <213> Homo sapien (7705159-18-2705-3893)

<220>  
 <221> VARIANT  
 <222> (1)...(210)  
 <223> Xaa = Any Amino Acid

<400> 2196

Cys His Pro	Pro Leu Arg Trp Gly	Ser Xaa Glu Pro	Ala Glu Glu Glu
1	5	10	15
Gly Leu Ala	Leu Ser Ser Arg Xaa	Phe Phe Phe Phe	Leu Ser Val Leu
	20	25	30
Asp Ala Gln	Leu His Asn Leu Ile	Ala Leu Gln Met Thr	Cys Phe Gln
	35	40	45
Asp Ala Glu	Ile Pro Asn Phe Phe	Trp Asp Pro Ser Gln	Leu Pro His
	50	55	60
Leu Ala Cys	Cys Asp Thr Phe Thr	Asn Asn Ile Ile	Met Tyr Phe Pro
	65	70	75
Ala Val Ile	Phe Gly Phe Leu Pro	Ile Ser Gly Thr Leu	Phe Ser Tyr
	85	90	95
Tyr Lys Ile	Val Ser Ser Ile Leu	Ser Val Ser Ser Ser	Arg Gly Gln
	100	105	110
Tyr Lys Ala	Phe Ser Thr Cys Gly	Ser His Leu Ser Val	Val Cys Xaa

**<400> 2198**

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Val Ala Cys Tyr Leu Pro Glu Leu Ser Val Gly Cys Pro Gly Gly Lys
 1          5          10          15
Glu Asn Glu Thr Gly Val Gly Glu Phe Leu Leu Leu Ser Ile Thr Ser
          20          25          30
Asp Ser Glu Lys Gln Gln Ala Leu Phe Trp Leu Phe Leu Cys Met His
          35          40          45
Leu Val Thr Glu Ala Gly Asn Thr Pro Ile Ile Leu Gly Ile Gly Ser
          50          55          60
Asn Pro Arg Leu His Thr Pro Thr Tyr Phe Phe Thr His Leu Ser Phe
65          70          75          80
Val Asn Ile Cys Phe Ile Thr Asn Leu Ile Pro Lys Leu Leu Val Asn
          85          90          95
His Val Ala Gly Thr Gly Met Ile Thr Ile Ser Ser Pro Gln Cys Leu
          100          105          110
Thr Gln Met Tyr Phe Leu Ile Ser Phe Ala Asn Val Asp Thr Phe Leu
          115          120          125
Leu Ala Ile Met Ala Leu Asp His Tyr Val Ala Ile Cys Ser Ala Leu
          130          135          140
Arg Tyr Cys Ser Ile Ile Thr Pro Glu Leu Cys Gln Gly Leu Ala Val
145          150          155          160
Leu Ala Xaa Ala Gly Ser Ser Leu Ile Ser Leu Val His Thr Val Ile
          165          170          175
Met Ser Arg Leu Ala Phe Cys Ser Ser Ala Gln Ile Ser His Phe Tyr
          180          185          190
Cys Asp Ala Tyr Leu Leu Met Lys Ile Ala Cys Ser His Thr Val Asn
          195          200          205
Gln His Val Phe Leu Gly Ala Val Val Leu Phe Leu Ala Pro Cys Ala
          210          215          220
Leu Ile Leu Val Ser Tyr Ile Arg Ile Ala Ala Ala Ile Leu Arg Ile
225          230          235          240
Pro Ser Pro Thr Arg Arg Arg Lys Ala Cys Ser Ile Cys Ser Ser His
          245          250          255
Leu Ser Leu Val Thr Leu Phe Tyr Gly Thr Val Leu Gly Ile Cys Ile
          260          265          270
Xaa Pro Pro Asp Ser Phe Ser Ala Gln Asp Thr Ile Ala Thr Ile Met
          275          280          285
Tyr Thr Val Val Thr Ser Met Leu Asn Pro Phe Ile Tyr Ser Leu Met
          290          295          300
Asn Lys Glu Val Gln Glu Ala Val Arg Arg Leu Phe Ser Arg Gly Ser
305          310          315          320
His Ser Ser

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&lt;210&gt; 2199

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7715624-11-1-3301)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(328)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2199

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Leu Ser Ile Cys Phe Phe Leu Cys Ile Phe Ser Ala Asp Ile Xaa Ser
 1          5          10          15
Met Leu Ala Met Glu Gln Asn Asn Gly Thr Glu Val Thr Glu Phe Ile
          20          25          30
Leu Leu Gly Phe Ala Gly Gln His Lys Ser Trp His Ile Leu Ser Ile
          35          40          45
Ala Phe Leu Ala Ile Tyr Val Val Thr Pro Val Gly Asn Ile Gly Met

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      50              55              60
Ile Leu Leu Ile Lys Ile Asp Ala Ser Leu His Ile Pro Met Xaa Ile
65              70              75              80
Phe Leu Gln His Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Ala Ile
      85              90              95
Thr Pro Lys Met Leu Lys Asn Phe Val Glu Thr Lys Lys Ser Ile Ser
      100             105             110
Cys Ile Gly Cys Met Val Gln Leu Leu Val Tyr Gly Thr Phe Ala Thr
      115             120             125
Ser Asp Cys Tyr Ile Leu Ala Ala Met Ala Val Asp Arg Tyr Val Ala
      130             135             140
Phe Cys Asn Pro Leu His Tyr Pro Gly Val Met Ser Gln Arg Leu Cys
145             150             155             160
Ile Lys Leu Leu Val Ser Ser Tyr Val Met Gly Phe Leu Asn Ala Ser
      165             170             175
Ile Asn Ile Ser Phe Thr Phe Ser Leu Asn Phe Cys Lys Ser Lys Thr
      180             185             190
Ile Asn His Phe Phe Cys Asp Glu Pro Pro Ile Ile Ala Leu Pro Cys
      195             200             205
Ser Asn Ile Asp Leu Asn Ile Met Leu Leu Thr Val Phe Val Gly Leu
      210             215             220
Asn Leu Met Cys Thr Val Met Val Val Ile Ile Ser Cys Ile Tyr Val
225             230             235             240
Leu Val Ala Ile Leu Arg Ile Ser Ser Ala Ala Gly Lys Lys Lys Ser
      245             250             255
Leu Ser Thr Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly
      260             265             270
Val Leu Ser Tyr Met Tyr Leu Cys His Arg Ile Asn Glu Ser Gln Lys
      275             280             285
Gln Glu Lys Val Ala Ser Val Phe Tyr Gly Ile Ile Ile Pro Met Leu
      290             295             300
Asn Pro Leu Ile Tyr Ser Gln Arg Asn Gln Asp Val Ile Glu Ala Ile
305             310             315             320
Lys Leu Thr Glu Lys Lys Tyr Phe
      325

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&lt;210&gt; 2200

&lt;211&gt; 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7768677-1-106933-108798)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(193)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2200

```

Phe Phe Asn Ile Thr Xaa Phe Val Pro Glu Val Met Lys Ser Leu Ser
1              5              10              15
Arg Ser Lys Asp Ile Ser Phe Asn Phe Cys Phe Xaa Phe Phe Phe
      20              25              30
Ser Cys Gly Cys Thr Gly Leu Thr Glu Asp Ile Phe Val Val Phe Lys
      35              40              45
Ser Phe Val Leu Phe Gly Val Leu Ser Xaa Ala His Leu Pro Val Lys
      50              55              60
Lys Lys Lys Lys Arg Phe Cys Ser Leu Leu Tyr Xaa Thr Thr Ile Leu
65              70              75              80
Ile Cys Lys Trp Pro Lys Thr Ser Pro Phe Phe Thr Glu Phe Leu Ser
      85              90              95
Leu Ser Arg Lys Asn Leu Lys Phe Gln Lys Asn Ile Glu Cys Glu Tyr
      100             105             110

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Met Ile Ser Val Xaa Ala Thr Cys Ile Gly Asn Lys Tyr Leu Asn Cys  
 115 120 125  
 Glu Ile Tyr Leu Arg Ser Leu Thr Phe Pro Asn Ile Ser Ser Ile Val  
 130 135 140  
 Phe Phe Leu Leu Gln Ser Lys Tyr Met Phe Thr Phe Xaa Lys Tyr Arg  
 145 150 155 160  
 Glu Ala Gln Asn Trp Gly Lys Lys Pro Xaa Xaa Ile Pro Pro Ser Arg  
 165 170 175  
 Lys Lys Ala Ile Asn Leu Xaa Arg Ile Ser Ser Xaa Ser Leu Phe Cys  
 180 185 190  
 Val

&lt;210&gt; 2201

&lt;211&gt; 291

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (7770649-26-5915-7266)

&lt;400&gt; 2201

Met Val Gly Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly  
 1 5 10 15  
 Leu Thr Asn Ser Trp Glu Ile Arg Leu Leu Leu Val Phe Ser Ser  
 20 25 30  
 Met Phe Tyr Met Ala Ser Met Met Gly Asn Ser Leu Ile Leu Thr  
 35 40 45  
 Val Thr Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Thr Ser Pro Lys  
 65 70 75 80  
 Met Ile Tyr Asp Leu Phe Arg Lys His Glu Val Ile Ser Phe Gly Gly  
 85 90 95  
 Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met  
 100 105 110  
 Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu Gln Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Met Phe Phe  
 130 135 140  
 Leu Val Ala Ala Trp Val Thr Gly Leu Ile His Ser Val Val Gln Leu  
 145 150 155 160  
 Val Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Ser Asp Ser  
 165 170 175  
 Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Thr Asp Ser  
 180 185 190  
 Tyr Arg Leu Glu Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu  
 195 200 205  
 Gly Ser Phe Phe Ile Leu Ile Ile Ser Tyr Val Val Ile Ile Leu Thr  
 210 215 220  
 Val Leu Lys His Ser Ser Ala Gly Leu Ser Lys Ala Leu Ser Thr Leu  
 225 230 235 240  
 Ser Ala His Val Ser Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe  
 245 250 255  
 Val Tyr Thr Trp Pro Ser Pro Ser Thr His Leu Asp Lys Phe Leu Ala  
 260 265 270  
 Ile Phe Asp Ala Val Leu Thr Pro Val Leu Asn Pro Ile Ile Tyr Thr  
 275 280 285  
 Phe Arg Asn  
 290

&lt;210&gt; 2202

&lt;211&gt; 92

&lt;212&gt; PRT



<213> Homo sapien (7939486-13-581-990)

<220>

<221> VARIANT

<222> (1)...(92)

<223> Xaa = Any Amino Acid

<400> 2202

```

Cys His Pro Ser His Tyr Phe Ser Ile Leu Ile Arg Phe Leu Cys Leu
 1          5          10          15
Tyr Leu Ser Leu Glu Met Gln Ala Ala Cys Ser Ser Ser Xaa Leu Thr
          20          25          30
His Thr Ile His Phe Met Lys His Lys Pro Val Leu Thr Asn Ser Leu
          35          40          45
Ser Ser Leu Phe Asn Leu Ser Asn Cys Asp Lys Asn His Thr Ala Leu
          50          55          60
Tyr Pro Val Xaa Pro Pro Met Ile Phe Asp Gln Lys Pro Asn Leu Phe
65          70          75          80
Phe Val Val Phe Thr Tyr Gly Gln Leu Gly Ser Thr
          85          90

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<210> 2203

<211> 168

<212> PRT

<213> Homo sapien (7996320-1-1-801)

<400> 2203

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Lys Gln Ser Ser Gly Asp Ser Gly Asn Gln Thr Thr Trp Leu Ile Leu
 1          5          10          15
Val Gly Phe Gly Glu Leu Gln Tyr Leu Gly Phe Leu Pro Phe Thr Leu
          20          25          30
Phe Leu Ala Ile Tyr Val Val Thr Val Val Gly Asn Ala Leu Ile Met
          35          40          45
Leu Ala Val Ala Ser Ser Arg Thr Leu His Pro Pro Met Tyr Phe Phe
          50          55          60
Leu Cys His Phe Ser Leu Leu Glu Ile Gly Tyr Thr Ser Asn Val Ile
65          70          75          80
Leu Trp Leu Leu Gln Ser Phe Leu Glu Gly Lys Glu Val Ile Ser Leu
          85          90          95
Val Ser Cys Leu Ala Gln Phe Tyr Val Phe Ser Ser Leu Ala Ala Ala
          100          105          110
Glu Cys Leu Leu Leu Ser Ala Val Ser Tyr Asp Cys Tyr Leu Ala Ile
          115          120          125
Cys Cys Pro Leu His Tyr Pro Ala Leu Met Ser Thr Trp Phe Cys His
          130          135          140
Cys Leu Ala Ala Gly Ala Trp Phe Ser Gly Phe Phe Ser Ser Ala Phe
145          150          155          160
Thr Met Ala Leu Ala Ala Pro Leu
          165

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<210> 2204

<211> 167

<212> PRT

<213> Homo sapien (7996320-11-500-1042)

<220>

<221> VARIANT

<222> (1)...(167)

<223> Xaa = Any Amino Acid

<400> 2204

Gly Leu Gly Gly Gly Gln Ser Cys Ala Asn Lys Lys Trp Gly Thr Gly  
 1 5 10 15  
 Leu Asn Leu Thr Pro Ser Phe His Gly Ser Arg Ser Asn Phe Cys Gly  
 20 25 30  
 Pro Xaa Ile Ser Ile His Ser Tyr Ser Leu Gln Ser Phe Leu Pro Val  
 35 40 45  
 Leu Ile Met Asn Leu Tyr Xaa Thr His Cys Ser Xaa Gln Ser Ser Pro  
 50 55 60  
 Ile Leu His Tyr Pro Val Gln Val Leu Gly Leu Gly Thr Leu Val Leu  
 65 70 75 80  
 Leu Leu Gly Ser Tyr Ser Cys Ile Ile Met Thr Ala Pro Gly Asp Gln  
 85 90 95  
 Leu Cys Xaa Gln Gly Arg Ser Lys Ile Leu Ser Thr Cys Ser Ser His  
 100 105 110  
 Tyr Leu Val Val Thr Ile Phe Tyr Thr Ser Gly Phe Leu Arg Tyr Val  
 115 120 125  
 Ile Leu Tyr Pro Xaa Ile Xaa Met Arg Asp Ile Pro Tyr Pro Lys Trp  
 130 135 140  
 Ser Pro Leu Ala Glu Glu Ser Ile Thr Lys Xaa Gln Asp Ile Gln Lys  
 145 150 155 160  
 Ala Xaa Ala Leu Val Leu Leu  
 165

&lt;210&gt; 2205

&lt;211&gt; 294

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8052042-13-4893-7590)

&lt;400&gt; 2205

Ala Thr Tyr Asn Ser Ser Asn Thr Val Val Thr Glu Phe Val Phe Leu  
 1 5 10 15  
 Ser Phe Pro Glu Leu His His Leu Gln Gly Leu Leu Phe Val Ser Leu  
 20 25 30  
 Leu Ile Ile Tyr Val Val Thr Ile Leu Glu Asp Leu Ala Val Val Gly  
 35 40 45  
 Thr Ile Arg Ala Ser His His Leu His Ile Ser Thr His Leu Phe Leu  
 50 55 60  
 Ala Gln Leu Ser Val Leu Glu Thr Leu Tyr Thr Ser Val Thr Val Pro  
 65 70 75 80  
 Lys Leu Leu Ala Gly Leu Pro Ala Glu Arg Arg Pro Ser Ile Ser Phe  
 85 90 95  
 Ser Gly His Leu Thr Trp Leu Leu Leu Phe Leu Ser Leu Ser Ser Ser  
 100 105 110  
 Glu Cys Val Leu Pro Ala Asn Met Asp Cys Asp Trp His Pro Val Ile  
 115 120 125  
 Cys His Leu Leu His Tyr Leu Ser Pro Ser Trp Thr Pro Cys Ser Trp  
 130 135 140  
 Leu Cys Leu His Leu Ala Ile Ser Ala Gln Leu Ser Ser Phe Pro Ala  
 145 150 155 160  
 Ser Phe Val Ser Thr Ala Leu Asn Ser Ser Leu Arg Leu Arg Ser Pro  
 165 170 175  
 Asp Val Leu Asn His Phe Cys Asp Ile Pro Pro Pro Leu Gly Leu Ser  
 180 185 190  
 Cys Ser Ser Thr Thr Thr Ile Glu Met Arg Thr Gln Ala Ala Gln Val  
 195 200 205  
 Ile Leu Ala Ala Ser Leu Gln Ala Thr Thr Val Ser Tyr Thr His Ile  
 210 215 220  
 Leu Ala Arg Ser Leu Arg Ile Pro Glu Arg Pro Ser Lys Leu Lys Ala  
 225 230 235 240  
 Phe Pro Thr Tyr Ala Ser His Leu Gly Cys Gly Ser Ser Asn Leu Ile  
 245 250 255

Lys Leu Val Ser Gly Val Tyr Leu Val Gly Ile Pro Leu Leu Lys Pro  
                   260                  265                  270  
 Ile Ile Tyr Cys Leu Arg Asn Cys Asn Ile Arg Glu Ala Leu Ala Lys  
                   275                  280                  285  
 Leu Leu Gln Ala Leu Pro  
                   290

<210> 2206  
 <211> 175  
 <212> PRT  
 <213> Homo sapien (8052042-5-3342-10968)

<220>  
 <221> VARIANT  
 <222> (1)...(175)  
 <223> Xaa = Any Amino Acid

<400> 2206  
 Leu Leu Met Ala Ala Asp Asn His Thr Arg Val Glu Ala Phe Val Leu  
   1                  5                  10                  15  
 Gln Gly Phe Ser Glu Asp Leu Pro Leu Gln Gly Cys Cys Phe Ala Phe  
                   20                  25                  30  
 Phe Leu Leu Tyr Leu Met Ala Leu Val Gly Asn Ile Leu Met Val Met  
                   35                  40                  45  
 Ala Ile Ser Leu Asn Pro Gly Leu His Thr Pro Val Tyr Phe Phe Leu  
                   50                  55                  60  
 Thr Asn Leu Ala Leu Leu Asp Ile Val Cys Thr Ser Met Asp Asn Ser  
   65                  70                  75                  80  
 Arg Val Val Ala Val Leu Tyr Thr Val Val Ser Pro Thr Leu Asn Pro  
                   85                  90                  95  
 Ser Pro Thr Pro Cys Gly Thr Arg Thr Tyr Gln Xaa His Xaa Gly Glu  
                   100                  105                  110  
 Cys Phe Leu Ala Ser Gly Lys Arg Lys Gly Ser Phe Xaa Cys Glu Met  
                   115                  120                  125  
 Phe Gln Val Leu Thr Asn Xaa Phe Gln His Met Thr Leu Arg Ile Ser  
                   130                  135                  140  
 Cys Lys Gln Gln Gly Thr Arg Lys Xaa Leu Met Pro His Ile Tyr Lys  
   145                  150                  155                  160  
 Xaa Cys Ala Pro Ala Arg Gly Cys His His Ser Met Trp Asn Ser  
                   165                  170                  175

<210> 2207  
 <211> 275  
 <212> PRT  
 <213> Homo sapien (8072456-16-39461-40850)

<400> 2207  
 Met Val Gly Asn Leu Leu Ile Trp Val Thr Thr Ile Gly Ser Pro Ser  
   1                  5                  10                  15  
 Leu Gly Ser Leu Met Tyr Phe Phe Leu Ala Tyr Leu Ser Leu Met Asp  
                   20                  25                  30  
 Ala Ile Tyr Ser Thr Ala Met Ser Pro Lys Leu Met Ile Asp Leu Leu  
                   35                  40                  45  
 Cys Asp Lys Ile Ala Ile Ser Leu Ser Ala Cys Met Gly Gln Leu Phe  
                   50                  55                  60  
 Ile Glu His Leu Leu Gly Gly Ala Glu Val Phe Leu Leu Val Val Met  
   65                  70                  75                  80  
 Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro Leu His Tyr Leu Asn  
                   85                  90                  95  
 Ile Met Asn Arg Leu Val Cys Ile Leu Leu Leu Val Val Ala Met Ile  
                   100                  105                  110

Gly Gly Phe Val His Ser Val Val Gln Ile Val Phe Leu Tyr Ser Leu  
           115                                  120                  125  
 Pro Ile Cys Gly Pro Asn Val Ile Asp His Ser Val Cys Asp Met Tyr  
           130                                  135                  140  
 Pro Leu Leu Glu Leu Leu Cys Leu Asp Thr Tyr Phe Ile Gly Leu Thr  
 145                                  150                  155                  160  
 Val Val Ala Asn Gly Gly Ile Ile Cys Met Val Ile Phe Thr Phe Leu  
                                   165                  170                  175  
 Leu Ile Ser Cys Gly Val Ile Leu Asn Phe Leu Lys Thr Tyr Ser Gln  
                                   180                  185                  190  
 Glu Glu Arg His Lys Ala Leu Pro Thr Cys Ile Ser His Ile Ile Val  
                                   195                  200                  205  
 Val Ala Leu Val Phe Val Pro Cys Ile Phe Met Tyr Val Arg Pro Val  
                                   210                  215                  220  
 Ser Asn Phe Pro Phe Asp Lys Leu Met Thr Val Phe Tyr Ser Ile Ile  
 225                                  230                  235                  240  
 Thr Leu Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Gln Ser Glu Met  
                                   245                  250                  255  
 Lys Asn Ala Met Lys Asn Leu Trp Cys Glu Lys Leu Ser Ile Val Arg  
                                   260                  265                  270  
 Lys Arg Val  
                   275

&lt;210&gt; 2208

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8077072-13-9613-11523)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(316)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2208

Met Val Ile Leu Ser Trp Glu Asn Gln Thr Met Arg Val Glu Phe Val  
   1                                  5                  10                  15  
 Leu Gln Gly Phe Ser Ser Ile Arg Gln Leu Asn Ile Phe Leu Phe Met  
                                   20                  25                  30  
 Ile Ile Leu Val Phe Tyr Ile Leu Thr Val Ser Gly Asn Ile Leu Ile  
                                   35                  40                  45  
 Val Leu Leu Val Leu Val Arg His His Leu His Thr Pro Met Tyr Phe  
                                   50                  55                  60  
 Leu Leu Val Asn Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Asn Ile  
 65                                  70                  75                  80  
 Ile Pro Lys Met Leu Leu Ile Ile Ile Ala Glu Xaa Lys Thr Ile Ser  
                                   85                  90                  95  
 Val Ala Gly Trp Leu Ala Gln Phe Tyr Phe Phe Gly Ser Leu Ala Ala  
                                   100                  105                  110  
 Thr Glu Cys Leu Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala  
                                   115                  120                  125  
 Ile Cys Gln Pro Leu Cys Tyr Arg Val Leu Met Thr Gly Pro Leu Cys  
                                   130                  135                  140  
 Ile Arg Leu Ala Ala Gly Ser Trp Phe Cys Cys Phe Leu Leu Thr Ala  
 145                                  150                  155                  160  
 Ile Thr Met Val Leu Leu Cys Arg Leu Thr Phe Cys Gly Pro Tyr Glu  
                                   165                  170                  175  
 Thr Asp His Phe Phe Cys Asp Phe Thr Pro Leu Val His Leu Ser Cys  
                                   180                  185                  190  
 Met Asp Thr Ser Val Thr Glu Thr Ile Ala Phe Ala Thr Ser Ser Ala  
                                   195                  200                  205  
 Val Thr Leu Ile Pro Phe Leu Leu Ile Val Ala Ser Tyr Ser Cys Val

210	215	220
Leu Ser Ala Ile Leu Arg Ile Pro Ser Cys Thr Gly Gln Lys Lys Ala		
225	230	235
Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Val Phe Tyr Gly		240
	245	250
Thr Leu Ile Ala Thr Tyr Leu Val Pro Ser Ala Asn Ser Ser Gln Leu		255
	260	265
Leu Cys Lys Gly Ser Ser Leu Leu Tyr Ile Ile Leu Thr Pro Met Phe		270
	275	280
Asn Pro Ile Ile Tyr Ser Leu Arg Asn Arg Asp Ile His Glu Ala Leu		285
	290	295
Lys Lys Cys Leu Arg Lys Lys Ser Gly Val Cys Leu		300
305	310	315

&lt;210&gt; 2209

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8081198-24-6628-8036)

&lt;400&gt; 2209

Met Glu Asn Gln Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr		
1	5	10
Glu Asn Leu Glu Leu Trp Lys Ile Phe Ser Ala Val Phe Leu Val Met		15
	20	25
Tyr Val Ala Thr Val Leu Glu Asn Leu Leu Ile Val Val Thr Ile Ile		30
	35	40
Thr Ser Gln Ser Leu Arg Ser Pro Met Tyr Phe Phe Leu Thr Phe Leu		45
	50	55
Ser Leu Leu Asp Val Met Phe Ser Ser Val Val Ala Pro Lys Val Ile		60
	65	70
Val Asp Thr Leu Ser Lys Ser Thr Thr Ile Ser Leu Lys Gly Cys Leu		75
	85	90
Thr Gln Leu Phe Val Glu His Phe Phe Gly Gly Val Gly Ile Ile Leu		95
	100	105
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu		110
	115	120
His Tyr Thr Ile Ile Met Ser Pro Arg Val Cys Cys Leu Met Val Gly		125
	130	135
Gly Ala Trp Val Gly Gly Phe Met His Ala Met Ile Gln Leu Leu Phe		140
	145	150
Met Tyr Gln Ile Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile		155
	165	170
Cys Asp Leu Phe Gln Leu Leu Thr Leu Ala Cys Thr Asp Thr His Ile		175
	180	185
Leu Gly Leu Leu Val Thr Leu Asn Ser Gly Met Met Cys Val Ala Ile		190
	195	200
Phe Leu Ile Leu Ile Ala Ser Tyr Thr Val Ile Leu Cys Ser Leu Lys		205
	210	215
Ser Tyr Ser Ser Lys Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser		220
	225	230
His Leu Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr		235
	245	250
Met Arg Pro Val Val Thr His Pro Ile Asp Lys Ala Met Ala Val Ser		255
	260	265
Asp Ser Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg		270
	275	280
Asn Ala Glu Val Lys Ser Ala Met Lys Lys Leu Trp Met Lys Trp Glu		285
	290	295
Ala Leu Ala Gly Lys		300
305		

<210> 2210  
 <211> 270  
 <212> PRT  
 <213> Homo sapien (8086488-18-2452-4090)

<400> 2210  
 Met Glu Val Ser Gly Asn His Thr Ser Val Ala Met Phe Val Leu Leu  
 1 5 10 15  
 Gly Leu Ser Asp Glu Lys Glu Leu Gln Leu Ile Leu Phe Pro Val Phe  
 20 25 30  
 Leu Val Ile Tyr Leu Val Thr Leu Ile Trp Asn Met Gly Leu Ile Ile  
 35 40 45  
 Leu Ile Arg Ile Asp Ser His Leu Asn Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Phe Leu Ser Phe Thr Asp Ile Cys Tyr Ser Ser Thr Ile Ser Pro  
 65 70 75 80  
 Arg Met Leu Ser Asp Phe Leu Lys Asp Lys Lys Thr Ile Ser Phe Leu  
 85 90 95  
 Ala Cys Ala Thr Gln Tyr Phe Leu Gly Ala Trp Met Ser Leu Ala Glu  
 100 105 110  
 Cys Cys Leu Leu Val Ile Met Ala Cys Asp Arg Tyr Val Ala Ile Gly  
 115 120 125  
 Ser Pro Leu Gln Tyr Ser Ala Ile Met Val Pro Ser Ile Cys Trp Lys  
 130 135 140  
 Met Val Ala Gly Val Cys Gly Gly Gly Phe Leu Ser Ser Leu Val His  
 145 150 155 160  
 Thr Val Pro Cys Phe Asn Leu Tyr Tyr Cys Gly Pro Asn Ile Ile Gln  
 165 170 175  
 His Phe Phe Cys Asn Thr Leu Gln Ile Ile Ser Leu Ser Cys Ser Asn  
 180 185 190  
 Pro Phe Ile Ser Gln Met Ile Leu Phe Leu Glu Ala Ile Phe Val Gly  
 195 200 205  
 Leu Gly Ser Leu Leu Val Ile Leu Leu Ser Tyr Gly Phe Ile Val Ala  
 210 215 220  
 Ser Ile Leu Lys Ile Ser Ser Thr Lys Cys Cys Ala Lys Ala Phe Asn  
 225 230 235 240  
 Thr Cys Ala Ser His Leu Ala Ala Val Ala Leu Phe Tyr Gly Thr Ala  
 245 250 255  
 Leu Ser Val Tyr Met His Pro Ser Ser Ser His Ser Met Lys  
 260 265 270

<210> 2211  
 <211> 161  
 <212> PRT  
 <213> Homo sapien (8096828-10-670-2127)

<220>  
 <221> VARIANT  
 <222> (1)...(161)  
 <223> Xaa = Any Amino Acid

<400> 2211  
 Gly Trp Lys Ser Ser Thr Phe Asn Ile Ser Cys Thr Lys Phe Phe Leu  
 1 5 10 15  
 Val Gly Phe Pro Gly Leu Arg Glu Trp Trp Pro Leu Leu Val Leu Pro  
 20 25 30  
 Leu Val Phe Leu Phe Val Thr Ile Ile Ser Ala Asn Ala Leu Val Ile  
 35 40 45  
 His Thr Val Val Ala Arg Gln Asn Leu His Gln Pro Thr Cys Met Leu  
 50 55 60  
 Ile Thr Val Leu Leu Ala Val Asn Ile Arg Ala Ala Thr Ala Val Met

```

65          70          75          80
Pro Lys Met Leu Glu Gly Phe Val Tyr Tyr Ala Asn Pro Ile Ser Leu
          85          90          95
His Gly Arg Leu Ala Xaa Val Phe Phe Ile Tyr Phe Thr Leu Leu Leu
          100          105          110
Asp Tyr Asn Phe Leu Trp Pro Trp Pro Trp Thr Gly Tyr Phe Ala Ile
          115          120          125
Cys His Pro Leu Cys Phe Ser Asp Leu Met Thr Ser Gln Leu Leu Gly
          130          135          140
Leu Leu Ala Ile Leu Ala Phe Glu Gln Ser Pro Gly Ser Asp Pro Ala
145          150          155          160
Pro

```

&lt;210&gt; 2212

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8096828-22-1-1563)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(198)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2212

```

Val Ala Ile Cys His Pro Leu Cys Phe Gln Thr Glu Xaa Leu Pro Ser
1          5          10          15
Trp Leu Gly Leu Leu Ala Ile Leu Ala Leu Thr Gln Ser Trp Gly Val
          20          25          30
Thr Val Pro Leu Val Val Leu Thr Ala Lys Ala Asp Phe Cys Arg Thr
          35          40          45
Ala Val Ile Arg His Phe Thr Cys Glu Cys Ile Ala Leu Leu Ser Ile
          50          55          60
Ala Cys Gly Asp Leu Thr Phe Asn Asn Trp Leu Gly Leu Ala Met Cys
65          70          75          80
Leu Val Thr Val Ile Ser Asp Met Ala Leu Leu Gly Thr Ser Tyr Thr
          85          90          95
His Ile Ile Tyr Ala Ala Phe Arg Ile Ser Ser Trp Gly Ala Gln Ala
          100          105          110
Lys Ala Leu His Thr Cys Gly Ser His Leu Leu Val Ile Leu Ser Ile
          115          120          125
Tyr Val Ser Gly Leu Ser Thr Ser Ile Thr Phe Xaa Val Ala Lys Thr
          130          135          140
Val Ser Gln Asn Val Gln Asn Leu Leu Ser Ala Ile Tyr Leu Leu Leu
145          150          155          160
Pro Gly Ala Leu Asn Pro Val Ile Tyr Gly Val Arg Thr Arg Glu Ile
          165          170          175
Gln Gln His Val Glu Lys Met Leu Cys Glu Lys Glu Thr Ala Gln Lys
          180          185          190
Ala Gly Glu Lys Pro Lys
195

```

&lt;210&gt; 2213

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8096945-19-338-2509)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(323)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2213

```

Gly Thr Leu Asn Leu Ser Ser Phe Asn Pro Gly Leu Phe Ile Leu Leu
 1          5          10          15
Gly Ile Pro Gly Leu Glu Trp Phe Cys Ile Trp Met Gly Ile Leu Ser
 20          25          30
Phe Thr Ser Tyr Leu Val Ser Leu Ala Gly Asn Val Ile Leu Leu Tyr
 35          40          45
Leu Ile Thr Val Glu His Asn Leu His Lys Pro Met Phe Ser Phe Leu
 50          55          60
Ser Ile Pro Ala Ser Ala Asn Leu Ile Leu Cys Ile Thr Tyr Phe Pro
 65          70          75          80
Lys Thr Phe Gly Ile Phe Xaa Leu Lys Ala Gln Lys Ile Ile Phe Pro
 85          90          95
Gly Cys Phe Thr Arg Phe Phe Phe Phe Gly Leu Leu His Phe Ser Phe
 100          105          110
Phe Leu Asp Leu Ala Ile Leu Leu Gly Leu Ala Phe Asp His Tyr Met
 115          120          125
Thr Ile Gly Phe Leu Leu Arg Tyr Thr Ser Gly Leu Thr Pro Arg Thr
 130          135          140
Leu Gly Lys Ile Val Val Ser Ile Asp Xaa Arg Phe Asn Asn Ile Leu
 145          150          155          160
Pro Ile Asp Phe Leu Gly Lys His Leu Pro Phe Cys Arg Thr His Ile
 165          170          175
Asn Ser Asn Thr Tyr Cys Glu His Ile Gly Val Ala Leu Leu Ser Tyr
 180          185          190
Ala Asp Ile Ser Ile Asn Ile Trp Tyr Asp Phe Thr Ile Leu Val Met
 195          200          205
Thr Ile Ile Ser Asp Leu Ile Leu Thr Asp Ile Ser Tyr Thr Leu Thr
 210          215          220
Leu His Ala Val Phe His Leu Pro Ser Ser Asp Ala Leu Leu Lys Ala
 225          230          235          240
Leu Ser Thr Cys Gly Ser His Val Ser Val Ile Leu Met Leu Tyr Thr
 245          250          255
Pro Thr Met Leu Ser Ala Leu Thr His His Phe Gly Gln Ser Ile Ser
 260          265          270
Cys Thr Phe Tyr Ile Met Phe Val Gly Leu Tyr Arg Ala Ile Pro Pro
 275          280          285
Val Leu Asn Ser Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Gly Asn
 290          295          300
Lys Val Ile Leu Leu Phe Phe Leu Lys Gly Met Gln Xaa Tyr Glu Asp
 305          310          315          320
Glu Asn Met

```

&lt;210&gt; 2214

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8099799-17-8549-9091)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(130)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2214

```

Phe Xaa Ser Ser Ser Gly Gln Thr Arg His Phe Lys Ala Tyr Glu Xaa
 1          5          10          15
His Leu Val Thr Gln Cys Ser Met Leu Trp Val Xaa Asp Xaa Tyr Phe
 20          25          30
Leu Cys Ala Leu Leu Gln Pro Leu His His Gly Ser Lys Ser Xaa Thr

```



```

      35      40      45
Gln Gly Ser Ser Phe Trp Ala Lys Gly Phe Val Leu Glu Val Ile Leu
  50      55      60
Ser Phe Ser Xaa Xaa Val Ala His Ile Cys Ser Xaa Leu Val Leu Ser
65      70      75      80
Ala Phe Ser Cys Leu Xaa Asn Phe Met Ser Leu Thr Ala Phe Phe His
      85      90      95
Phe Val Leu Ser Leu Ser Leu Xaa His Lys Leu Val Val Phe Leu Lys
      100      105      110
Leu Tyr His Phe Xaa Lys Pro Gly Ser Pro Met Tyr Val Met Thr Ile
      115      120      125
His Ile
      130

```

&lt;210&gt; 2215

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8102357-9-3785-4449)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(188)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2215

```

His Trp Lys Ile Leu Arg Arg Asn Ser Lys Met Ile His Glu Ile Ile
  1      5      10      15
Xaa Thr Leu Cys Gln Ile Leu Tyr Ser Glu Asp Lys Thr Cys Tyr Ile
      20      25      30
Gln Ile Gln Ser Leu Phe Cys Thr Asp Leu Glu Ile Pro Asn Phe Phe
      35      40      45
Cys Glu Leu Asn Xaa Val Val His Leu Ala Cys Ser Asp Thr Phe Leu
      50      55      60
Lys Asp Ile Val Arg Tyr Cys Thr Thr Met Leu Leu Ser Gly Gly Pro
65      70      75      80
Ile Ala Gly Ile Phe Tyr Ser Phe Ser Lys Ile Ile Ser Ser Ile Cys
      85      90      95
Ala Ile Pro Ser Ala Gln Gly Lys His Lys Ala Phe Pro Thr Cys Val
      100      105      110
Ser His Leu Ser Asn Met Ser Leu Phe Tyr Cys Arg Ser Thr Gly Leu
      115      120      125
Tyr Leu Ser Phe Ala Ala Thr His Asn Ser Cys Ser Asn Ala Thr Ala
      130      135      140
Ser Val Arg His Thr Val Val Lys Pro Leu Leu Asn Val Phe Ile Leu
145      150      155      160
Lys Ser Ser Asn Lys Asp Ile Lys Xaa Ala Leu Lys Val Phe Phe Arg
      165      170      175
Gly Lys Gln Trp Lys His His Phe Ser Lys Ser Ala
      180      185

```

&lt;210&gt; 2216

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8102369-26-1-1971)

&lt;400&gt; 2216

```

Met Ala Gly Glu Asn His Thr Thr Leu Pro Glu Phe Leu Leu Leu Gly
  1      5      10      15
Phe Ser Asp Leu Lys Ala Leu Gln Gly Pro Leu Phe Trp Val Val Leu
      20      25      30
Leu Val Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu Leu

```

```

      35              40              45
Thr  Gln Val Ser Pro Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg
  50              55              60
Gln  Leu Ser Val Val Glu Leu Phe Tyr Thr Thr Asp Ile Val Pro Arg
  65              70              75              80
Thr  Leu Ala Asn Leu Gly Ser Pro His Pro Gln Ala Ile Ser Phe Gln
      85              90              95
Gly  Cys Ala Ala Gln Met Tyr Val Phe Ile Val Leu Gly Ile Ser Glu
      100              105              110
Cys  Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
      115              120              125
Gln  Pro Leu Arg Tyr Ser Thr Leu Leu Ser Pro Arg Ala Cys Met Ala
      130              135              140
Met  Val Gly Thr Ser Trp Leu Thr Gly Ile Ile Thr Ala Thr Thr His
      145              150              155              160
Ala  Ser Leu Ile Phe Ser Leu Pro Phe Arg Ser His Pro Ile Ile Pro
      165              170              175
His  Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Ser Ala Gly
      180              185              190
Lys  His Arg Ser Glu Ile Ser Val Met Thr Ala Thr Ile Val Phe Ile
      195              200              205
Met  Ile Pro Phe Ser Leu Ile Val Thr Ser Tyr Ile Arg Ile Leu Gly
      210              215              220
Ala  Asn Leu Ala Met Gly Leu Thr Gln Ser Arg Arg Lys Val Phe Ser
      225              230              235              240
Thr  Cys Ser Ser His Arg Leu Val Val Ser Leu Phe Phe Gly Thr Ala
      245              250              255
Ser  Ile Thr Asn Asn Arg Pro Gln Ala Gly Ser Ser Glu Thr Thr Asp
      260              265              270
Arg  Val Ile Ser Leu Phe Asn Thr Val Ile Thr Pro Met Leu Asn Pro
      275              280              285
Ile  Ile Asn Thr His Gly Asn Lys Asp Val Arg Arg Ala Leu Arg Tyr
      290              295              300
Leu  Val Lys Arg Arg Arg Pro Ser Pro Gly Arg Gly Ser Gly
      305              310              315

```

&lt;210&gt; 2217

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8102369-32-1554-1892)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(109)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2217

```

Tyr Met Val Val Thr Leu Val Leu Val Ile Leu Ser Tyr Ala Phe Ile
  1              5              10              15
Ile Lys Thr Ile Leu Lys Leu Pro Ser Ala Gln Gln Arg Thr Lys Ala
      20              25              30
Phe Pro Thr Cys Ser Ser His Met Ile Val Ile Ser Leu Ser Tyr Gly
      35              40              45
Ser Cys Met Phe Met Tyr Ile Asn Pro Ser Ala Lys Asp Arg Asp Thr
      50              55              60
Phe Asn Lys Gly Val Ala Leu Leu Ile Thr Ser Val Ala Pro Leu Leu
      65              70              75              80
Asn Pro Phe Ile Tyr Thr Leu Arg Asn Gln Gln Val Arg Gln Pro Phe
      85              90              95
Lys Asp Met Val Lys Lys Leu Leu Asn Leu Xaa Arg Ile
      100              105

```

<210> 2218  
 <211> 131  
 <212> PRT  
 <213> Homo sapien (8102369-33-1-1370)

<400> 2218  
 Met Lys Asn Lys Thr Val Leu Thr Glu Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Asp Val Pro Glu Leu Gln Val Ala Val Phe Thr Phe Leu Phe Leu Ala  
 20 25 30  
 Tyr Leu Leu Ser Ile Leu Gly Asn Leu Thr Ile Leu Ile Leu Thr Leu  
 35 40 45  
 Leu Asp Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe  
 50 55 60  
 Ser Phe Leu Glu Ile Ser Phe Thr Asn Ile Phe Ile Pro Arg Val Leu  
 65 70 75 80  
 Ile Ser Ile Thr Thr Gly Asn Lys Ser Ile Ser Phe Ala Gly Cys Phe  
 85 90 95  
 Thr Gln Tyr Phe Phe Ala Met Phe Leu Gly Ala Thr Glu Phe Tyr Leu  
 100 105 110  
 Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Leu Met  
 115 120 125  
 Thr Met His  
 130

<210> 2219  
 <211> 313  
 <212> PRT  
 <213> Homo sapien (8102369-49-1-1012)

<220>  
 <221> VARIANT  
 <222> (1)...(313)  
 <223> Xaa = Any Amino Acid

<400> 2219  
 Met Pro Asn Lys Ile Val Val Thr Glu Phe Phe Leu Thr Arg Pro Asp  
 1 5 10 15  
 Gly Leu Gln Lys Ser Phe Gln Val Ala Val Phe Leu Leu Pro Asp Ala  
 20 25 30  
 Cys His Thr Leu Xaa Leu Ser Leu Gly Thr Xaa Ile Ile Ile Thr Met  
 35 40 45  
 Thr Leu Leu Asp Thr Arg Met Gln Thr Ser Met Tyr Leu Phe Leu Gln  
 50 55 60  
 Asn Leu Ser Cys Leu Glu Ile Trp Phe Gln Thr Val Ile Val Pro Lys  
 65 70 75 80  
 Met Leu Leu Asn Ile Ala Met Gly Thr Lys Thr Val Ser Phe Ala Gly  
 85 90 95  
 Cys Ile Thr Gln Asp Phe Phe His Ile Phe Leu Gly Ala Thr Glu Phe  
 100 105 110  
 Phe Leu Leu Thr Ala Met Ala Tyr Asp Gln Tyr Ile Ala Ile Cys Lys  
 115 120 125  
 Pro Leu His Tyr Pro Met Leu Ile Ser Ser Arg Val Cys Thr Gln Leu  
 130 135 140  
 Ile Leu Thr Cys Trp Leu Leu Gly Phe Ser Phe Ile Ile Met Pro Val  
 145 150 155 160  
 Ile Leu Thr Ser Gln Leu Pro Phe Cys Asp Thr His Ile Lys His Phe  
 165 170 175  
 Phe Cys Asp Tyr Thr Pro Leu Met Glu Val Val Cys Ser Gly Pro Lys  
 180 185 190

```

Val Leu Glu Met Val Asp Phe Thr Leu Ala Leu Val Ala Leu Phe Gly
      195                      200                      205
Thr Leu Val Leu Ile Thr Leu Ser Tyr Val Gln Ile Ile Gln Thr Ile
      210                      215                      220
Val Arg Ile Pro Ala Val Gln Glu Arg Lys Lys Ala Phe Ser Thr Cys
225                      230                      235                      240
Ser Ser His Val Ile Met Val Thr Met Cys Tyr Asp Ser Cys Phe Phe
      245                      250                      255
Met Tyr Val Lys Pro Ser Pro Gly Lys Trp Val Asp Val Asn Lys Gly
      260                      265                      270
Val Ser Leu Ile Asn Thr Ile Ile Ala Pro Leu Leu Asn Pro Phe Ile
      275                      280                      285
Cys Thr Leu Arg Asn Gln Gln Val Lys Gln Val Met Lys Asp Leu Val
      290                      295                      300
Arg Lys Met Thr Leu Ser Glu Asn Lys
305                      310

```

&lt;210&gt; 2220

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8117362-7-1589-1951)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(96)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2220

```

Pro Leu Xaa Leu Met Val Val Ile Phe Ser Gln Val Tyr Thr Leu Ala
1                      5                      10                      15
Ala Ile Pro Lys Met Ser Ser Thr Ala Gly Arg Thr Gln Gly Phe Phe
      20                      25                      30
Met Xaa Ala Ser His Leu Thr Ala Val Val Ile Phe Tyr Gly Thr Pro
      35                      40                      45
Ser Tyr Met Tyr Leu His His Gly Asn Asn Gly Ser Pro Lys Gln Gly
      50                      55                      60
Lys Val Ser Ser Val Phe Tyr Gly Ile Val Ile Asp Leu Ser Leu Arg
65                      70                      75                      80
Val Gln Asp Ala Arg Glu Ala Leu Lys Glu Lys Gly Lys Lys Gln Phe
      85                      90                      95

```

&lt;210&gt; 2221

&lt;211&gt; 195

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8117365-9-1-1453)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(195)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2221

```

Arg Met Phe Xaa Thr Xaa Phe Phe Ser Ser Leu Thr Leu Arg Leu Gln
1                      5                      10                      15
Leu Ser His Leu Phe Pro Cys Leu Gly Tyr Val Phe Ser Leu Leu Gly
      20                      25                      30
Xaa His Asp Lys Arg Tyr Met Ile Gln Leu Asn Pro Ser Leu Ala Val
      35                      40                      45
Leu Lys Cys Val Ile Phe Trp Cys Val Cys Val Leu Val Cys Met Ser
      50                      55                      60
Tyr Glu Glu Gly Glu Arg Leu Ser Thr Ser Phe Leu Ala Pro Cys Val

```

<400> 2222																
Cys	Val	Asp	Ser	Ser	Leu	Lys	Xaa	Glu	Ile	Thr	Gln	Xaa	Cys	Leu	Ser	
1				5					10					15		
Leu	Leu	Leu	Xaa	Met	Ala	Glu	Gly	Trp	Arg	Leu	Tyr	Phe	Ile	Ile	Leu	
			20					25					30			
Ile	Ile	Ser	Tyr	Lys	Phe	Cys	Thr	Leu	Leu	Gly	Asn	Val	Ile	Phe	Arg	
		35					40					45				
Thr	Leu	Val	Cys	Ser	Leu	Gly	Phe	His	Thr	Ser	Cys	Met	Tyr	Phe	Phe	
		50				55					60					
Pro	Xaa	Lys	Ile	Ser	Leu	Xaa	Leu	Ala	Xaa	Val	Cys	His	Ser	Ile	Ile	
65					70					75					80	
Ala	Leu	Pro	Ser	Thr	Gln	Lys	Xaa	Ala	Ile	Asn	Val	Gln	Gly	Ala	Ala	
				85						90				95		
Val	His	Val	Phe	Ser	Phe	Pro	Cys	Leu	Tyr	Cys	Pro	Glu	Ile	Phe	Leu	
			100					105					110			
His	Ser	Leu	Thr	Gln	Cys	His	Pro	Phe	Ile	Ala	Ile	Gly	Tyr	Pro	Leu	
		115					120					125				
Gln	Gly	Met	His	Thr	Ile	Thr	His	Lys	Leu	Tyr	Ile	Leu	Leu	Thr	Thr	
		130				135					140					
Gly	Pro	Trp	Arg	Gly	Cys	Xaa	Leu	His	Val	Asn	Leu	Leu	Thr	Ala	Leu	
145					150					155					160	
Leu	Gly	Ser	Tyr	Pro	Asn	Pro	Val	Pro	Thr	Lys	Leu	Trp	Leu	Ser	Phe	
				165					170					175		
Pro	Ser	Ile	Pro	Glu	Val	Lys	Leu	Xaa	Pro	Met	Gln	Ala	Tyr	Thr	Lys	
			180					185					190			
Pro	Tyr	Ala	Gly	Leu	Ser	Leu	Cys	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser	
		195					200					205				
Phe	Ser	Leu	Phe	Ser	Ile	Ile	Ser	Ile	Ser	Tyr	Ile	Cys	Asn	Glu	Ile	
		210				215					220					
Asp	Ile	Pro	Lys	Ile	Ile	Ser	Ala	Asp	Ser	Val	His	Gly	Ala	Phe	Ser	
225					230					235					240	
Thr	Cys	Leu	Ala	His	Leu	Phe	Ala	Phe	Ser	Thr	Cys	Ile	Ala	Gln	Pro	
				245					250					255		

Ala Val Cys Asn Ser Leu Trp Pro Trp Thr Glu Ala Gln Thr Glu Ser  
 260 265 270  
 Ser Arg Asp Ser Val Ile Gln Arg Pro Asn Leu Cys Val Thr Ile Ser  
 275 280 285  
 Leu Asn Ser Leu Ile Ser Ser Leu Arg Asn Glu Ser Val Lys Gln Ala  
 290 295 300  
 Ser His Lys Ile Phe Lys Glu Gln Thr Leu Phe Met Lys Ile  
 305 310 315

<210> 2223

<211> 304

<212> PRT

<213> Homo sapien (8117535-5-1968-4011)

<220>

<221> VARIANT

<222> (1)...(304)

<223> Xaa = Any Amino Acid

<400> 2223

Met Arg Asn His Thr Leu Leu Asn Glu Phe Ile Leu Arg Gly Ile Pro  
 1 5 10 15  
 Gln Thr Glu Gly Leu Glu Ala Val Leu Cys Ala Val Phe Ser Phe Ile  
 20 25 30  
 Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Leu Ile Ala Ile Phe  
 35 40 45  
 Leu His Thr Pro Met Tyr Phe Phe Leu Gly Arg Leu Ser Thr Phe Asp  
 50 55 60  
 Ile Leu Phe Pro Ser Val Thr Cys Pro Lys Met Leu Leu Tyr Leu Ser  
 65 70 75 80  
 Gly Gln Ser Pro Val Ile Ser Phe Lys Gly Cys Ala Ser Gln Leu Phe  
 85 90 95  
 Phe Tyr Gln Leu Leu Gly Ser Ala Glu Gly Cys Leu Tyr Ser Val Met  
 100 105 110  
 Ser Tyr Asp Arg Phe Val Ala Ile His His Thr Leu Arg Tyr Met Leu  
 115 120 125  
 Ile Met Lys Pro Gly Val Cys Val Gly Leu Val Val Pro Trp Leu  
 130 135 140  
 Val Gly Cys Leu His Ala Thr Ile Leu Thr Ser Phe Thr Phe Gln Leu  
 145 150 155 160  
 Ser Tyr Cys Gly Pro Asn Gln Val Asp Tyr Phe Phe Cys Asp Ile Pro  
 165 170 175  
 Ala Val Leu Pro Leu Ala Cys Thr Asp Ser Ala Leu Ala Gln Arg Val  
 180 185 190  
 Gly Ser Ile Asn Val Gly Phe Leu Ala Leu Thr Leu Leu Ile Ser Val  
 195 200 205  
 Cys Val Cys Tyr Thr Ser Ile Gly Ile Ala Ile Leu Arg Ile Arg Ser  
 210 215 220  
 Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ser Ala His Leu Val  
 225 230 235 240  
 Ala Ile Leu Cys Ala Tyr Gly Pro Val Ile Ile Ile Tyr Leu Lys Ser  
 245 250 255  
 Thr Pro Asn Pro Leu Leu Gly Gly Gln Val Gln Ile Leu Asn Asn Val  
 260 265 270  
 Val Ser Pro Met Leu Asn Ser Leu Ile Tyr Ser Leu Arg Asn Lys Glu  
 275 280 285  
 Val Lys Arg Ser Leu Lys Arg Val Phe Xaa Asn Val Leu Leu Thr Val  
 290 295 300

<210> 2224

<211> 268

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8117653-5-5695-6912)

&lt;400&gt; 2224

```

Met Met Ala Leu Ile Phe Thr Asp Ser His Leu Gln Ser Pro Met Tyr
 1           5           10           15
Phe Phe Leu Asn Val Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Val
          20           25           30
Val Thr Pro Lys Leu Leu Val Asn Phe Leu Val Ser Asp Lys Ser Ile
          35           40           45
Ser Phe Glu Gly Cys Val Val Gln Leu Ala Phe Phe Val Val His Val
          50           55           60
Thr Ala Glu Ser Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Phe Leu
65           70           75           80
Ala Ile Cys Gln Pro Leu His Tyr Gly Ser Ile Met Thr Arg Gly Thr
          85           90           95
Cys Leu Gln Leu Val Ala Val Ser Tyr Ala Phe Gly Gly Ala Asn Ser
          100          105          110
Ala Ile Gln Thr Gly Asn Val Phe Ala Leu Pro Phe Cys Gly Pro Asn
          115          120          125
Gln Leu Thr His Tyr Tyr Cys Asp Ile Pro Pro Leu Leu His Leu Ala
130          135          140
Cys Ala Asn Thr Ala Thr Ala Arg Val Val Leu Tyr Val Phe Ser Ala
145          150          155          160
Leu Val Thr Leu Leu Pro Ala Ala Val Ile Leu Thr Ser Tyr Cys Leu
          165          170          175
Val Leu Val Ala Ile Gly Arg Met Arg Ser Val Ala Gly Arg Glu Lys
          180          185          190
Asp Leu Ser Thr Cys Ala Ser His Phe Leu Ala Ile Ala Ile Phe Tyr
          195          200          205
Gly Thr Val Val Phe Thr Tyr Val Gln Pro His Gly Ser Thr Asn Asn
          210          215          220
Thr Asn Gly Gln Val Val Ser Val Phe Tyr Thr Ile Ile Ile Pro Met
225          230          235          240
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala
          245          250          255
Leu Gln Arg Lys Leu Gln Val Asn Ile Phe Pro Gly
          260          265

```

&lt;210&gt; 2225

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8117705-18-1061-1646)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(184)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2225

```

Leu Val Lys Val Lys Lys Asn Xaa Asn Ile Phe Leu Ser Thr Ala Tyr
 1           5           10           15
His Phe Phe Pro Thr Leu Ser Val Asn Asn Asn Lys Phe Leu Xaa Ile
          20           25           30
Ile Asn Asn Asn Phe Xaa Val Xaa Phe Asn Leu His Ser Glu Thr Ser
          35           40           45
His Ser Xaa Val Tyr Ser Leu Val Leu Ser Ser Lys Val Cys Ile Leu
          50           55           60
Leu Ala Ala Gly Val Val Gly Gly Ile Leu Ser Arg Arg Ile Val Cys
65           70           75           80
Gly Pro Thr Val Ser Leu Ser Ser Ser Arg Ser Asn Ala Ile Asn His

```

```

      85              90              95
Phe Phe Cys Asn Lys Ser Leu Gly Leu Gly Leu Ser Cys Tyr Asn Ile
      100              105              110
Tyr Ile Ser Thr Ala Val Pro Ala Phe Val Gly Val Xaa Val Leu His
      115              120              125
Ser Leu Pro Tyr Leu Val Ile Met Phe Ser Trp Thr Tyr Ile Leu Val
      130              135              140
Ala Ile Lys Arg Met Ser Ser Val Gly Arg Lys Glu Leu Ser Ile Cys
145              150              155              160
Val Ser His Leu Lys Thr Ser Thr Ile Phe His Thr Ala Leu Phe Tyr
      165              170              175
Val Tyr Leu Gln Pro Asp Phe Phe
      180

```

&lt;210&gt; 2226

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8117705-9-1-790)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(148)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2226

```

Thr Tyr Asp Val Pro Arg Ser Gly Leu Cys Ile Val Ser Tyr Asn Thr
1      5      10      15
Cys Lys Ser Thr Met Met Ser Ile Lys Ile Gln Leu Lys Tyr Met Xaa
      20      25      30
Xaa Lys Xaa Leu Leu Ile Tyr Ala Gly Val Tyr Leu Asn Val Thr Met
      35      40      45
Leu Ile Val Thr Phe Lys Tyr Thr His Ile Phe His His Pro Glu Leu
50      55      60
Ala Leu Cys Tyr Val Ser Phe Ser Ala Val Val Phe His Leu Thr Ala
65      70      75      80
Val Thr Ile Phe Phe Gly Ala Leu Ser Tyr Met Asp Leu Gln Pro Glu
      85      90      95
Ser Thr Val Phe Gln Glu Gln Glu Asn Pro Ala Ser Ile Phe Cys Gly
      100      105      110
Ile Met Thr Leu Val Leu Asn Phe Leu Ile Tyr Cys Leu Xaa Asn Xaa
      115      120      125
Glu Val Lys Glu Ala Leu Gln Leu Thr Arg Lys Lys Tyr Xaa Tyr Met
130      135      140
Xaa Thr Glu Gly
145

```

&lt;210&gt; 2227

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8118143-13-1464-2322)

&lt;400&gt; 2227

```

Met Phe Val Val Ala Gly Phe Asn Phe Thr Tyr Pro Leu Leu Ile Ile
1      5      10      15
Leu Ile Ser Tyr Leu Tyr Ile Phe Pro Ala Thr Leu Arg Ile Cys Ser
      20      25      30
Thr Glu Gly Arg His Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr
      35      40      45
Ala Val Thr Ile Phe Tyr Ser Ala Leu Phe Phe Met Tyr Leu Arg Arg
50      55      60
Pro Ser Glu Glu Ser Met Glu Gln Gly Lys Met Val Ala Val Phe Tyr

```



```

65              70              75              80
Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn
              85              90              95
Lys Asp Val Lys Glu Ala Leu Cys Lys Glu Leu Phe Lys Arg Lys Leu
              100              105              110
Phe Ser Lys
              115

```

<210> 2228  
 <211> 157  
 <212> PRT  
 <213> Homo sapien (8118143-4-5591-10363)

<220>  
 <221> VARIANT  
 <222> (1)...(157)  
 <223> Xaa = Any Amino Acid

```

<400> 2228
Ile Cys His Asn Arg Lys Val Ile Pro Ala Ser Met Xaa Asn Met Cys
 1              5              10              15
Xaa Phe Leu Leu Lys Val Ala Xaa Asp Asn Phe Leu His Val Leu Phe
              20              25              30
Ile Leu Ala Lys Thr Ala Pro Pro Leu Leu Phe Leu Xaa Glu Ile Pro
              35              40              45
Ser Tyr Phe Ser Ser Pro Ser Xaa Ile Ile Val Leu Xaa Cys Leu Pro
              50              55              60
Xaa Phe Leu Lys Gln Leu Val Ile Leu Phe Val Phe Leu Leu Leu Asn
65              70              75              80
Xaa Ser Tyr Leu Thr Leu Ile Phe Met Leu Leu Thr Met Lys Ile Thr
              85              90              95
Ser Ser Phe Lys Ala Ser Thr Val Ile Ser Cys Leu Gln Phe Pro Ser
              100              105              110
Lys Ala Thr Cys Met His Gly Val Phe Ser Ala Val Cys Ala Gln Met
              115              120              125
Xaa Pro Tyr Tyr Asn Gly Xaa Ile Ile Xaa His Pro Glu Ser Ile Thr
              130              135              140
Glu Ser Lys Xaa Leu Thr Cys Val Asn Pro Xaa Phe Asn
145              150              155

```

<210> 2229  
 <211> 320  
 <212> PRT  
 <213> Homo sapien (8118143-4-617-5265)

<220>  
 <221> VARIANT  
 <222> (1)...(320)  
 <223> Xaa = Any Amino Acid

```

<400> 2229
Met Leu Val Pro Lys Lys Met Val Arg Gly Asn Ser Thr Leu Val Thr
 1              5              10              15
Glu Phe Ile Leu Leu Gly Leu Lys Asp Leu Pro Glu Leu Gln Pro Ile
              20              25              30
Leu Phe Val Leu Phe Leu Leu Ile Tyr Leu Ile Thr Val Gly Gly Asn
              35              40              45
Leu Gly Met Leu Val Leu Ile Arg Ile Asp Ser Arg Leu His Thr Pro
              50              55              60
Met Tyr Phe Phe Leu Ala Ser Leu Ser Cys Leu Asp Leu Tyr Tyr Ser
65              70              75              80

```

```

Thr Asn Val Thr Pro Lys Met Leu Val Asn Phe Phe Ser Asp Lys Lys
      85      90      95
Ala Ile Ser Tyr Ala Ala Cys Leu Val Gln Cys Tyr Phe Phe Ile Ala
      100      105      110
Val Val Ile Thr Glu Tyr Tyr Met Leu Ala Val Met Ala Tyr Asp Arg
      115      120      125
Tyr Val Ala Ile Cys Asn Pro Leu Leu Tyr Ser Ser Lys Met Ser Lys
      130      135      140
Gly Leu Cys Ile Arg Leu Ile Ala Gly Pro Tyr Val Tyr Gly Phe Leu
145      150      155      160
Ser Gly Leu Met Glu Thr Met Trp Thr Tyr His Leu Thr Phe Cys Gly
      165      170      175
Ser Asn Ile Ile Asn His Phe Tyr Cys Ala Asp Pro Pro Leu Ile Arg
      180      185      190
Leu Ser Cys Ser Asp Thr Phe Ile Lys Glu Thr Ser Met Phe Val Val
      195      200      205
Ala Xaa Phe Asn Leu Ser Ser Ser Leu Ile Ile Ile Leu Ile Ser Tyr
      210      215      220
Ile Phe Ile Leu Ile Ala Ile Leu Arg Met Arg Ser Ala Glu Ser Arg
225      230      235      240
Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu Val Ala Val Thr Val
      245      250      255
Phe Tyr Gly Thr Leu Phe Cys Met Tyr Val Arg Pro Pro Thr Asp Arg
      260      265      270
Ser Val Glu Gln Ser Lys Val Ile Ala Val Phe Tyr Thr Phe Val Ser
      275      280      285
Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
      290      295      300
Gln Ala Phe Trp Lys Leu Ile Arg Arg Asn Val Leu Leu Lys Xaa Asn
305      310      315      320

```

&lt;210&gt; 2230

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8118750-5-4885-6910)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(312)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2230

```

Met Xaa Asn Ser Arg Glu Ala Ser Gln Phe Ile Phe Leu Gly Leu Ser
  1      5      10      15
Asn Val Pro Glu Leu Gln Val Pro Phe Phe Ile Met Phe Val Leu Ile
      20      25      30
Tyr Leu Ile Asn Val Val Gly Asn Leu Gly Met Ile Ile Leu Ile Leu
      35      40      45
Trp Tyr Ser Gln Leu His Asn Pro Met Tyr Phe Phe Phe Ser Asn Leu
      50      55      60
Ser Leu Val Asp Phe Phe Tyr Ser Ser Val Val Thr Pro Lys Val Met
      65      70      75      80
Thr Gly Leu Leu Arg Glu Asp Lys Ile Ile Ser Tyr Thr Val Trp Ala
      85      90      95
Thr Gln Thr Phe Phe Ser Asp Ser Phe Ala Ser Val Val Asn Leu Leu
      100      105      110
Leu Ala Leu Met Ala Ser Gly His Tyr Ala Ala Val Cys Lys Pro Leu
      115      120      125
His Tyr Thr Thr Thr Met Met Thr Ser Val Cys Thr Cys Leu Ala Ile
      130      135      140
Gly Xaa Tyr Val Gly Gly Phe Leu Asn Ala Ser Ile His Thr Gly Glu

```

```

145          150          155          160
Thr Phe Ser Leu Phe Cys Met Ser Ser Glu Val His His Phe Phe Cys
          165          170          175
Glu Val Pro Ala Val Met Ala Leu Ser Cys Ser Asp Arg His Val Asn
          180          185          190
Val Val Val Leu Val Tyr Val Thr Ser Phe Asn Ile Leu Phe Ala Leu
          195          200          205
Leu Val Ile Leu Ile Ser Tyr Leu Leu Met Phe Ile Thr Ile Leu Lys
          210          215          220
Met His Ser Thr Ala Gly Tyr Gln Lys Ala Leu Ala Ile Cys Ala Ser
225          230          235          240
His Leu Thr Ala Val Ala Ile Phe Tyr Gly Thr Ile Ile Phe Met His
          245          250          255
Ile Gln Pro Ser Ser Ser His Ser Ile Asp Thr Asp Lys Ile Ala Ala
          260          265          270
Val Phe Tyr Thr Ile Val Phe Pro Met Val Asn His Val Val Xaa Arg
          275          280          285
Leu Lys Asn Lys Val Lys Ser Thr Phe Lys Lys Ile Val Glu Lys Val
          290          295          300
Lys Leu Ser Leu Gly Leu Xaa Val
305          310

```

&lt;210&gt; 2231

&lt;211&gt; 267

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8118750-8-1-2827)

&lt;400&gt; 2231

```

Ile Ile Leu Cys Phe Phe Ile Ile Gly Asn Ser Gln Asp Asn Ser Gln
1          5          10          15
Met Thr Leu Met Asp Asn Ile Ser Glu Val Thr Glu Phe Val Leu Val
          20          25          30
Gly Leu Thr Asp Val Leu Glu Leu Gln Val Pro Leu Phe Ile Ile Phe
          35          40          45
Thr Val Ile Tyr Leu Thr Thr Leu Val Gly Asn Phe Gly Met Ile Met
          50          55          60
Leu Ile Leu Leu Asp Ser Arg Leu His Ile Pro Met Tyr Phe Phe Leu
65          70          75          80
Gly Lys Leu Ser Leu Val Asp Ser Val Cys Ala Cys Leu Val Thr Gly
          85          90          95
Ser Tyr Ile Cys Gly Leu Phe Gln Ser Ser Ile His Val Ala Phe Thr
          100          105          110
Phe His Leu Ser Phe Cys His Ser Asn Val Val Asn His Phe Phe Cys
          115          120          125
Asp Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Ile Tyr Ala His
          130          135          140
Glu Ile Val Leu Phe Ile Leu Ala Ala Phe Asn Ile Phe Phe Thr Leu
145          150          155          160
Leu Ile Ile Leu Asn Ser Tyr Val Phe Ile Phe Ile Ala Ile Leu Arg
          165          170          175
Met His Ser Ala Glu Gly Gln Lys Lys Val Phe Ser Thr Cys Ala Tyr
          180          185          190
His Leu Thr Thr Val Ser Ile Phe Tyr Gly Thr Ile Thr Phe Met Tyr
          195          200          205
Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr Asp Lys Ile Ser Ser
          210          215          220
Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Val Tyr Ser
225          230          235          240
Leu Arg Asn Lys Glu Val Gln Ser Ala Phe Lys Val Val Ile Gly Lys
          245          250          255
Ala Lys Ser Ser Leu Gly Leu Ala Tyr Tyr Leu

```

260

265

<210> 2232  
 <211> 309  
 <212> PRT  
 <213> Homo sapien (8118822-9-5564-7217)

<220>  
 <221> VARIANT  
 <222> (1)...(309)  
 <223> Xaa = Any Amino Acid

&lt;400&gt; 2232

Glu	Xaa	Met	Gly	Thr	Ser	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Pro	Gly
1				5					10					15	
Leu	Ser	Gln	Asp	Pro	Asp	Val	Gln	Lys	Ala	Leu	Phe	Val	Met	Phe	Leu
		20						25					30		
Leu	Thr	Tyr	Asn	Val	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Val	Thr
		35					40					45			
Ile	Ile	Ala	Ile	Ala	Ser	Leu	Asp	Ser	Pro	Val	Ser	Phe	Phe	Leu	Ala
	50					55					60				
Cys	Leu	Ser	Phe	Ile	Asp	Ala	Val	Tyr	Ser	Thr	Ser	Phe	Ser	Pro	Lys
65					70					75				80	
Leu	Met	Ile	Asp	Leu	Cys	Asp	Lys	Lys	Thr	Val	Ser	Phe	Leu	Ala	
			85					90					95		
Cys	Met	Gly	Gln	Leu	Phe	Ile	Asn	Tyr	Pro	Phe	Gly	Gly	Ile	Glu	Val
		100					105						110		
Phe	Leu	Leu	Val	Gly	Met	Ala	Cys	Asp	His	Tyr	Val	Asp	Ile	Cys	Lys
	115					120						125			
Leu	Leu	His	Tyr	Leu	Thr	Ile	Met	Asn	Trp	Gln	Val	Cys	Ile	Leu	Leu
	130					135					140				
Phe	Met	Val	Ala	Val	Thr	Gly	Gly	Phe	Leu	His	Ser	Met	Phe	Gln	Ile
145					150					155					160
Val	Val	Val	Tyr	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His
				165					170					175	
Phe	Cys	Asp	Met	Tyr	Pro	Leu	Leu	Glu	Met	Val	Cys	Thr	Asp	Thr	Tyr
		180						185					190		
Phe	Ile	Gly	Leu	Thr	Val	Ile	Ala	Asn	Gly	Gly	Ala	Val	Cys	Met	Val
	195						200					205			
Ile	Phe	Ile	Leu	Leu	Leu	Ile	Ser	Tyr	Gly	Val	Ile	Leu	Asn	Ser	Leu
	210					215					220				
Lys	Thr	Tyr	Ser	Gln	Glu	Gly	Gly	His	Lys	Ala	Leu	Ser	Thr	Cys	Ser
225				230						235					240
Ser	Asn	Ile	Thr	Val	Ser	Leu	Phe	Phe	Asp	Pro	Cys	Ile	Phe	Ile	
			245					250					255		
Tyr	Val	Arg	Pro	Asp	Ser	Asn	Phe	Pro	Ile	Asp	Lys	Phe	Met	Thr	Val
		260						265					270		
Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu
		275					280					285			
Arg	Asn	Leu	Glu	Val	Arg	Ile	Ala	Val	Lys	Asn	Leu	Trp	Cys	Lys	Asn
	290					295					300				
Xaa	Thr	Ile	Val	Arg											
305															

<210> 2233  
 <211> 257  
 <212> PRT  
 <213> Homo sapien (8118832-14-2647-3682)

<220>  
 <221> VARIANT

&lt;222&gt; (1)...(257)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2233

```

Ser Met Tyr Phe Phe Leu Thr Asn Phe Ala Gly Leu Glu Ile Phe Tyr
 1           5           10           15
Phe Phe Thr Ile Ala Pro Leu Thr Leu Ala Asn Val Leu Pro Met Gly
      20           25           30
Arg Asn Leu Ile Ser Leu Pro Gly Cys Gly Gly Gln Met Phe Phe Phe
      35           40           45
Ile Phe Leu Gly Arg Ala Asp Cys Ile Leu Leu Ala Val Met Ala Phe
      50           55           60
Asp Trp Phe Val Ala Ile Cys Cys Pro Leu Cys Tyr Gly Leu Ile Met
      65           70           75           80
Ser Trp Arg Leu Cys Val Gln Leu Thr Leu Gly Ser Leu Leu Leu Gly
      85           90           95
Phe Phe Leu Ala Met Gln Leu Thr Val Leu Ile Phe Gln Leu Pro Leu
      100          105          110
Cys Ser Ser Lys Glu Ile Ser Thr Phe Tyr Cys Asp Val Leu Pro Val
      115          120          125
Met Arg Leu Ala Cys Ala Asp Thr Trp Val His Glu Ala Thr Met Ser
      130          135          140
Met Val Ser Thr Thr Phe Leu Thr Val Pro Phe Leu Leu Ile Thr Leu
      145          150          155          160
Ser Tyr Val Ser Ile Met Ala Ala Ile Leu Lys Ile Cys Ser Ala Glu
      165          170          175
Gly Arg His Lys Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val
      180          185          190
Leu Leu Gln Asp Xaa Cys Thr Arg Leu Ala Phe Leu Cys Pro Ser Ser
      195          200          205
Ser Tyr Tyr Pro Glu Arg Gly Gln Ala Val Ser Val Val Tyr Thr Phe
      210          215          220
Ile Thr Pro Val Leu Asn Pro Leu Ile Tyr Ser Met Arg Asn Thr Glu
      225          230          235          240
Leu Lys Asp Ala Leu Lys Arg Ala Met Thr Arg Val Pro Leu Leu Xaa
      245          250          255
Thr

```

&lt;210&gt; 2234

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8118892-3-16899-18792)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(327)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2234

```

Met Glu Gln Arg Lys Asn Val Thr Glu Phe Val Leu Val Gly Leu Thr
 1           5           10           15
Gln Ser Pro Gln Gly Gln Lys Ile Leu Phe Leu Val Phe Leu Leu Ile
      20           25           30
Tyr Val Val Thr Met Val Gly Asn Ile Phe Ile Val Val Thr Val Val
      35           40           45
Val Ser Pro Thr Leu Gly Cys Pro Met Tyr Phe Phe Leu Gly Tyr Leu
      50           55           60
Ser Phe Met Asp Ala Val His Ser Thr Thr Val Thr Pro Asn Met Ile
      65           70           75           80
Ile Asp Leu Leu Tyr Glu Lys Lys Thr Ile Ser Phe Gln Ala Cys Ile

```

```
<210> 2235
<211> 125
<212> PRT
<213> Homo sapien (8118970-10-4947-6912)
```

```
<210> 2236
<211> 112
<212> PRT
<213> Homo sapien (8118970-16-561-1769)
```

Met Glu Val Lys Asn Cys Cys Met Val Thr Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Ile Pro His Thr Glu Gly Leu Glu Met Thr Leu Phe Val Leu Phe Leu  
 20 25 30  
 Pro Phe Tyr Ala Cys Thr Leu Leu Gly Asn Val Ser Ile Leu Val Ala  
 35 40 45  
 Val Met Ser Ser Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly  
 50 55 60  
 Asn Leu Ser Val Phe Asp Met Gly Phe Ser Ser Val Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Leu Tyr Leu Met Gly Leu Ser Arg Leu Ile Ser Tyr Lys Asp  
 85 90 95  
 Cys Val Cys Gln Leu Phe Phe Phe His Phe Leu Gly Ser Ile Glu Cys  
 100 105 110

&lt;210&gt; 2237

&lt;211&gt; 287

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8119016-6-4856-7402)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(287)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2237

Val Ile Arg Asn Gln Thr Met Val Thr Glu Phe Thr Leu Val Ser Leu  
 1 5 10 15  
 Pro Ala Val Gln Glu Leu Gln Ile Trp Leu Cys Val Leu Leu Trp Leu  
 20 25 30  
 Val His Met Leu Thr Ile Thr Gly Asn Leu Phe Val Ile Phe Leu Thr  
 35 40 45  
 Trp Thr Asp Asn Cys Leu Gln Thr Pro Met Asp Leu Phe Leu Glu Lys  
 50 55 60  
 Lys Val Ile Ser Phe Ser Gly Cys Ile Thr Gln Ile Tyr Phe Tyr Phe  
 65 70 75 80  
 Phe Leu Gly Thr Val Ala Phe Ile Pro Leu Ala Val Thr Ser Phe Lys  
 85 90 95  
 His Cys Met Ala Thr Cys Asp Pro Leu Cys Ser Thr Ile Ile Ala Lys  
 100 105 110  
 Ser Arg Ala Cys Leu Leu Leu Ala Leu Gly Cys Trp Met Gly Thr Phe  
 115 120 125  
 Leu Ala Val Leu Arg Leu Thr Ile Val Val Ser Arg Leu Pro Asp Cys  
 130 135 140  
 Thr Glu Lys Ile Ser Pro Phe Phe Cys Asp Ile Ala Ser Leu Leu Gln  
 145 150 155 160  
 Val Ala Cys Ile Asp Ile His Phe Ile Glu Met Ile Ser Phe Leu Xaa  
 165 170 175  
 Ser Ser Leu Met Val Leu Thr Ser Leu Val Leu Asn Ala Thr Ser Tyr  
 180 185 190  
 Ala Tyr Ile Ile Ser Thr Leu Leu Cys Ile Pro Ser Ala Gln Gly Cys  
 195 200 205  
 Gln Glu Ala Phe Ser Thr Cys Ala Ser His Ile Thr Ile Ile Phe Ile  
 210 215 220  
 Ala Cys Arg Asn Ser Ile Ser Thr Cys Val Arg Pro Asn Pro Arg Tyr  
 225 230 235 240  
 Xaa Leu Asp Phe Asp Lys Val Thr Ala Ile Leu Thr Ile Val Val Thr  
 245 250 255  
 Ser Phe Leu Asn Pro Arg Ile Tyr Ser Leu Arg Xaa Arg Lys Tyr Glu  
 260 265 270  
 Gly Ser Xaa Ile Cys Thr Ile Leu Ser Pro His Ser Lys Gly Thr

275

280

285

<210> 2238  
 <211> 210  
 <212> PRT  
 <213> Homo sapien (8119057-10-2407-4064)

<220>  
 <221> VARIANT  
 <222> (1)...(210)  
 <223> Xaa = Any Amino Acid

<400> 2238  
 Leu Gly Asn Val Ser Thr Glu Thr Thr Phe Ile Phe Val Cys Phe Thr  
 1 5 10 15  
 Asn Gly Gln Gln Phe Gln Pro Val Cys Phe Ser Ser Phe Xaa Val Leu  
 20 25 30  
 Gly His Ser Val Leu Gly Leu Ser Ser Leu Leu Asn Ile His Gly Glu  
 35 40 45  
 Leu Val Phe Ser Leu Phe Ser Phe Val Phe Val Phe Gln Met Ser Tyr  
 50 55 60  
 Ser Phe Val Ile Leu Ile Lys Met Ile Met Asn Ile Ser Glu Arg  
 65 70 75 80  
 Tyr Ile Thr Thr Asn Leu Lys Cys Lys Thr Ser Ala Leu Val Phe Ile  
 85 90 95  
 Cys Phe Ala Ile Ser Glu Thr Leu Ile Leu Leu Ala Trp Gly His Cys  
 100 105 110  
 Gly Ile Cys Val Pro Gln Val Cys Ser Leu Thr Met Leu Gly Leu His  
 115 120 125  
 Gly Val Gly Ile Asp Gly Val Met Ala His Pro Glu Ala Met Val Ser  
 130 135 140  
 Leu Ser Phe Cys Asp Arg Ser Ile Ile Asn His Cys Val Trp His Thr  
 145 150 155 160  
 Ser Phe His Gln Thr Leu Leu Arg Ala Pro Ala Ser Gln Ala Gly Asp  
 165 170 175  
 Phe Val Val Ile Ala Xaa Xaa Leu Ile Ile Phe Ile Ser Asp Ile Leu  
 180 185 190  
 Ile Leu Ser Thr Ile Leu His Phe Leu Phe Pro Glu Ala Asn Ser Lys  
 195 200 205  
 Ala Phe  
 210

<210> 2239  
 <211> 228  
 <212> PRT  
 <213> Homo sapien (8119057-15-786-3116)

<220>  
 <221> VARIANT  
 <222> (1)...(228)  
 <223> Xaa = Any Amino Acid

<400> 2239  
 Met Leu Ile Pro Ser Ser Thr Arg Lys Met Ala Ala Glu Ser His Ser  
 1 5 10 15  
 Thr Val Thr Glu Phe Ile Leu Arg Lys Lys Pro Ala Arg Ala Pro Ala  
 20 25 30  
 Pro Pro Leu Leu Gly Ile Cys Leu Lys Thr Val Val Gly Ala Leu Ile  
 35 40 45  
 Leu Ile Thr Leu Val Phe Leu Asn Ser Gln Leu His Pro Pro Met Tyr  
 50 55 60



Tyr Val Ile Arg Asn Leu Ser Phe Met Asp His Cys Asn Cys Ser Ile  
 65 70 75 80  
 Ser Thr Pro Lys Ile Leu Val Lys Phe Val Leu Glu Lys Thr Ile Ile  
 85 90 95  
 Ser Tyr Glu Asp Gly Met Ser Gln Leu Cys Ser Ala Ser Cys Tyr Ile  
 100 105 110  
 Leu Ser Trp Pro Ser Val Thr Cys Gly Pro Ala Thr Ala Val Ile Thr  
 115 120 125  
 Phe His Gln Val Ser Ser Leu Val Val Val Val Tyr Tyr Met Glu  
 130 135 140  
 Leu Thr Gly Thr Thr Ile Glu Phe Cys Leu Val Leu Lys Xaa Tyr Xaa  
 145 150 155 160  
 Cys Glu Leu Phe Ile Ser His Tyr Phe Cys Ser Cys Thr Ser Ile Tyr  
 165 170 175  
 Asp Ile Asp Arg Thr Ile Phe Phe Phe Thr Xaa Cys Asn Ile Val Val  
 180 185 190  
 Thr Arg Leu Thr Val Val Ser Tyr Ser Phe Leu Ser Ser Ile Leu His  
 195 200 205  
 Ile Ser Phe Thr Arg Ala Ala Leu Gly Phe Ser Arg Arg Ser Asp Ala  
 210 215 220  
 Phe Met Leu Cys  
 225

&lt;210&gt; 2240

&lt;211&gt; 277

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8119057-2-10436-11711)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(277)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2240

His Ser Phe Leu Arg Tyr Ile Phe Ala Lys Leu Thr Gly Glu Pro Glu  
 1 5 10 15  
 Leu Gln Pro Ser Leu Tyr Ser Val Phe Trp Ser Pro Xaa Leu Gly Xaa  
 20 25 30  
 Pro His His Thr Ser Met Tyr Pro Leu His Thr Ser Met Tyr Leu Tyr  
 35 40 45  
 Ile Phe Ser Phe Ser Phe Ile Gly Phe Phe Tyr Ser Ser Val Ile Ser  
 50 55 60  
 Pro Gln Met Thr Ile Ser Phe Val Thr Glu Lys Asn Ile Ile Thr Tyr  
 65 70 75 80  
 Val Thr Ser Asn Thr Gln Pro Phe Pro Leu Cys Phe Phe Val Ile Ser  
 85 90 95  
 Asp Tyr Ser Ile Phe Ile Pro Leu Ala Leu Asp His Tyr Glu Ala Met  
 100 105 110  
 Thr Leu Pro Val Ser Phe Ile Ser Phe Ile Ser Val Asp Gly Ser Xaa  
 115 120 125  
 Val Ile Glu Phe Ala Asp Ala Val Val His Gln Gly Ser Met Asp Gln  
 130 135 140  
 Phe Leu Phe Cys Asp His Ser Cys Met Ser Leu Asn Leu Cys Asn Ile  
 145 150 155 160  
 Gly Pro Leu Gln Ala Ala Xaa Ile Ser Thr Tyr Val Ser Lys Gln Val  
 165 170 175  
 Asp Leu Tyr Ser Xaa Glu Pro Ala Val Tyr His Ala Val Leu Ser Phe  
 180 185 190  
 Ser Tyr Phe Val Phe Ile Leu Phe Asn Ile Phe His Xaa Pro Ser Gly  
 195 200 205  
 Pro Asn Leu Gln Pro Asp Ser Ile Asn Leu Phe Ile Ser Phe Phe Gly

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      210                      215                      220
Leu Gly Thr Phe Met Tyr Leu Arg Ser Pro Glu Ala Met Gly Xaa Cys
225                      230                      235                      240
Lys Phe Thr Val Ser Phe Thr Lys Met Gly Pro Val Met Asn Gly Leu
      245                      250                      255
Phe Asn Thr Leu Arg Asn Lys Thr Ile Xaa Leu Ala Ala Met Lys Pro
      260                      265                      270
Leu Ser Phe Ser Ser
      275

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<210> 2241
<211> 125
<212> PRT
<213> Homo sapien (8119057-22-209-1834)

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<220>
<221> VARIANT
<222> (1)...(125)
<223> Xaa = Any Amino Acid

```

```

<400> 2241
Ile Leu Ser Ser Ile Leu His Ile Ser Ser Thr Glu Gly Arg Ser Lys
 1          5          10          15
Ala Phe Ser Thr Cys Ser Ser His Ile Val Val Ser Leu Phe Phe
      20          25          30
Gly Ser Gly Ala Phe Met Tyr Leu Lys Pro Pro Ser Ile Leu Pro Leu
      35          40          45
Asp Gln Gly Lys Val Ser Ser Ile Phe Cys Thr Ala Val Val Pro Met
      50          55          60
Phe Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala
      65          70          75          80
Leu Arg Arg Thr Phe Cys Arg Lys Leu Val Ser Xaa Lys Xaa Met Arg
      85          90          95
Lys Gly Ile Gln Thr Phe Val Asn Gln Gly Val Ser Phe Leu Phe Phe
      100          105          110
Ser Glu Gly Thr Asn Ala Thr Ala Phe Ser Pro Ile Leu
      115          120          125

```

```

<210> 2242
<211> 164
<212> PRT
<213> Homo sapien (8119071-15-1-1473)

```

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<220>
<221> VARIANT
<222> (1)...(164)
<223> Xaa = Any Amino Acid

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<400> 2242
Trp Lys Asn His Phe Thr Ser Val Asn Cys Gly Phe Ala Ile Cys Arg
 1          5          10          15
Ala Glu Cys Xaa Pro Xaa Pro Lys Ile Leu Ser Ile Ile Gly Leu Lys
      20          25          30
Xaa Asn Ile Asn Glu Thr Leu Xaa Met Leu Asn Tyr Asn Thr Asn His
      35          40          45
Met Val Ser Val Asp Val Leu Ile Val Pro Asn Ser Leu Ile Thr Leu
      50          55          60
Ser Tyr Phe Phe Ile Val Ala Ala Ile Leu His Ile Arg Ser Ala Glu
      65          70          75          80
Gly Arg His Lys Ala Phe Pro Thr Cys Ser Phe His Leu Val Val Ile
      85          90          95

```

Leu Leu Gln His Asn Ala Thr Ser Leu Thr Tyr Leu Cys Pro Ser Ser  
                   100                  105                  110  
 Ile Phe Ser Tyr Glu Arg Gly Lys Val Val Ser Thr Val Tyr Thr Cys  
                   115                  120                  125  
 Ile Thr Pro Val Pro Asn Pro Leu Ile Cys Ser Met Arg Lys Lys Glu  
                   130                  135                  140  
 Leu Lys His Ala Leu Lys Lys Lys Glu Glu Ile Ala Arg Phe Leu Leu  
 145                  150                  155                  160  
 Leu Arg Thr His

<210> 2243  
 <211> 131  
 <212> PRT  
 <213> Homo sapien (8131609-2-31657-32554)

<220>  
 <221> VARIANT  
 <222> (1)...(131)  
 <223> Xaa = Any Amino Acid

<400> 2243  
 Ile Ile Tyr Leu Leu Cys Xaa Asp Pro Ala Ile Cys Glu Ser Val Ile  
 1                  5                  10                  15  
 Phe Phe Pro Met Gly Phe Ser Asp Cys Leu Pro Ile Leu Ser Ile Met  
                   20                  25                  30  
 Ile Thr Tyr Leu Phe Thr Phe Ile Asp Leu Leu Ile Pro Leu Pro His  
                   35                  40                  45  
 Val Xaa Leu Gln Lys Asp Tyr Tyr Val Cys Ala Ser Asn Leu Thr Val  
                   50                  55                  60  
 Val Ser Thr Phe Ser Xaa Asp His Leu Phe Ser Cys Leu His Ser Ser  
 65                  70                  75                  80  
 Asp Ala Ala Leu Leu Trp Thr Gln Thr Lys Leu His Ser Tyr Phe Ala  
                   85                  90                  95  
 Ile Val Ile Pro Thr Leu Tyr Pro Leu Val His Ser Leu Lys Asn Arg  
                   100                  105                  110  
 Gly Gly Gln Ser Ala Leu Arg Lys Val Leu Val Lys Ala Lys Ser Gln  
                   115                  120                  125  
 Leu Ser Leu  
 130

<210> 2244  
 <211> 312  
 <212> PRT  
 <213> Homo sapien (8131609-3-27134-29103)

<220>  
 <221> VARIANT  
 <222> (1)...(312)  
 <223> Xaa = Any Amino Acid

<400> 2244  
 Thr Thr Ser Ile Asp Asp Asn Thr Glu Val Asn Glu Phe Ile Xaa Leu  
 1                  5                  10                  15  
 Gly Leu Thr Lys Ala Pro Glu Leu Gln Val His Leu Phe Val Leu Phe  
                   20                  25                  30  
 Asn Phe Ile Tyr Leu Phe Thr Leu Ser Gly Asn Leu Gly Met Met Leu  
                   35                  40                  45  
 Leu Ile Leu Leu Asp Ser Arg Leu His Thr Ser Met Tyr Phe Phe Leu  
                   50                  55                  60  
 Ser Asn Leu Ser Leu Val Asp Phe Cys Tyr Ser Glu Thr Val Thr Pro

65					70					75				80
Lys	Met	Met	Ala	Gly	Leu	Leu	Ile	Ala	His	Lys	Val	Ile	Ser	Tyr Asn
				85					90					95
Val	Cys	Ala	Ala	Gln	Met	Phe	Phe	Phe	Ala	Val	Phe	Ala	Thr	Val Glu
			100					105					110	
Ser	Tyr	Phe	Leu	Thr	Ser	Val	Ala	Tyr	Asp	Cys	Tyr	Arg	Val	Met Cys
		115					120					125		
Lys	Pro	Leu	His	Tyr	Thr	Thr	Thr	Met	Thr	Thr	Asn	Val	Cys	Ala Ser
	130					135					140			
Leu	Ala	Ile	Ala	Cys	Tyr	Val	Leu	Gly	Leu	Leu	Thr	Ala	Ala	Val Asp
145					150					155				160
Ile	Gly	Asp	Ile	Cys	Met	Ser	Asn	Glu	Ile	His	His	Phe	Phe	Cys Asp
				165					170					175
Ile	Leu	Ala	Val	Met	Thr	Leu	Thr	Cys	Ser	Asn	Lys	His	Ile	Asn Glu
		180						185					190	
Leu	Ile	Leu	Val	Leu	Leu	Gln	Ala	Ile	Phe	Phe	Thr	Leu	Leu	Val Ile
	195					200						205		
Leu	Ile	Ser	Cys	Leu	Phe	Val	Phe	Val	Phe	Val	Thr	Ile	Leu	Lys Met
	210				215						220			
His	Leu	Phe	Lys	Ser	Tyr	Lys	Lys	Val	Leu	Ser	Thr	Tyr	Gly	Ser His
225					230					235				240
Leu	Thr	Ala	Val	Pro	Leu	Phe	Tyr	Glu	Thr	Val	Leu	Ile	Thr	Tyr Val
				245					250					255
Gln	Pro	Ser	Ser	Ser	His	Phe	Met	Asn	Thr	Glu	Lys	Ile	Val	Ser Val
		260						265					270	
Phe	His	Ile	Met	Val	Ile	Pro	Met	Leu	Ile	Pro	Val	Val	Tyr	Ser Leu
		275					280					285		
Arg	Asn	Asn	Glu	Val	Lys	Ser	Ala	Phe	Lys	Thr	Val	Val	Glu	Glu Thr
	290					295					300			
Lys	Tyr	Phe	Leu	Gly	Leu	Val	Phe							
305					310									

&lt;210&gt; 2245

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8131615-11-1-272)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(189)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2245

Ala	Thr	Lys	Glu	Leu	Cys	Phe	Leu	Gly	Val	Tyr	Ile	Pro	Lys	Gly Asp
1				5					10					15
Ala	Cys	Trp	Lys	Xaa	Leu	Xaa	Leu	Gly	Leu	His	Leu	Leu	Leu	Gly
			20					25					30	
Xaa	Gln	Val	Val	Ser	Met	Val	Gly	Asn	Leu	Ala	Leu	Ile	Ala	Leu Ile
		35					40					45		
Gly	Xaa	Asn	Ser	Tyr	Leu	His	His	Pro	Gln	Ala	Leu	Phe	Ser	Phe Thr
	50					55					60			
Gln	Ser	Phe	Pro	Asp	Leu	Tyr	Cys	Pro	Val	Cys	Thr	Pro	Arg	Met Leu
65					70					75				80
Met	Thr	Phe	Val	Ser	Lys	Lys	Asn	Ile	Phe	Tyr	Val	Arg	Cys	Met Thr
				85					90				95	
Gln	Leu	Ser	Gln	Leu	Phe	Phe	Leu	Phe	Ile	Val	Leu	Ser	Ile	Lys Tyr
			100					105					110	
His	Val	Leu	Met	Phe	Ile	Ala	Cys	Gly	Cys	Leu	Val	Ala	Ile	Tyr Asn
		115					120					125		
Pro	Ser	Leu	His	Glu	Val	Thr	Met	Ser	Pro	Gln	Val	Arg	Glu	Met Arg
	130					135					140			

Glu Ser Gly Phe Ala Gly Thr Thr Ala His Thr Gly His Ile Leu Arg  
 145 150 155 160  
 Pro Asn Leu Cys Asn Ile Asp Val Ile Asn His His Leu Thr Asp Ser  
 165 170 175  
 Leu Leu Val Leu Xaa Val Ser Cys Thr Ser Thr Cys Ala  
 180 185

&lt;210&gt; 2246

&lt;211&gt; 207

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8131622-1-12991-13959)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(207)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2246

Glu Ile Ile Leu Ile Gly Ile Ser Leu Lys Leu Tyr Leu Val Val Phe  
 1 5 10 15  
 Thr Ile Ile Lys Ile Lys Xaa His Ser Ile Gly Leu Ser Ser Asn Lys  
 20 25 30  
 Asn Met Arg Leu Pro Ser Asp Phe Phe Leu Ser Gln Ala Ile Tyr Tyr  
 35 40 45  
 Xaa Trp Ala Leu Met Cys Val Leu Glu Asn Lys Thr Tyr Ala Ser Val  
 50 55 60  
 Arg Leu Val Xaa Arg Phe Gly Trp Xaa Lys Leu Ala Asn Xaa Met Ser  
 65 70 75 80  
 Val Leu Tyr Leu Glu Ala Asn Leu Gly Asn Met Asp Asn Ala Leu Leu  
 85 90 95  
 Lys Xaa Leu Lys Arg Asn Tyr Phe Val Phe Val Phe Thr Ser Phe Leu  
 100 105 110  
 Phe Gly Cys Ile Ala Phe Lys Xaa Lys Glu Ile Phe Tyr Pro Tyr Thr  
 115 120 125  
 Ser Ile Cys Ile Tyr His Leu Leu Met Met Glu Arg Lys Val Ser Cys  
 130 135 140  
 Leu Thr Leu Ile Cys Leu Ala Xaa Asp Leu Xaa His Phe Xaa Cys Ser  
 145 150 155 160  
 Leu Val Thr Val Leu Ser Leu Glu Cys Xaa Gln Leu Asp Ile Cys Asn  
 165 170 175  
 Val Val Thr Tyr Phe Asn Thr Met Val Xaa Ser Thr Thr Gly Ser Asn  
 180 185 190  
 Ser Xaa Thr Pro Asn His Ser Val Leu Ile Cys Asn Met Leu Lys  
 195 200 205

&lt;210&gt; 2247

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8131622-11-1950-4442)

&lt;400&gt; 2247

Met Thr Gly Gly Gly Asn Ile Thr Glu Ile Thr Tyr Phe Ile Leu Leu  
 1 5 10 15  
 Gly Phe Ser Asp Phe Pro Arg Ile Ile Lys Val Leu Phe Thr Ile Phe  
 20 25 30  
 Leu Val Ile Tyr Ile Thr Ser Leu Ala Trp Asn Leu Ser Leu Ile Val  
 35 40 45  
 Leu Ile Arg Met Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Phe Ile Asp Val Cys Tyr Ile Ser Ser Thr Val Pro  
 65 70 75 80

Lys Met Leu Ser Asn Leu Leu Gln Glu Gln Gln Thr Ile Thr Phe Val  
                             85                            90                            95  
 Gly Cys Ile Ile Gln Tyr Phe Ile Phe Ser Thr Met Gly Leu Ser Glu  
                             100                            105                            110  
 Ser Cys Leu Met Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys  
                             115                            120                            125  
 Asn Pro Leu Leu Tyr Ser Ser Ile Met Ser Pro Thr Leu Cys Val Trp  
                             130                            135                            140  
 Met Val Leu Gly Ala Tyr Met Thr Gly Leu Thr Ala Ser Leu Phe Gln  
 145                            150                            155                            160  
 Ile Gly Ala Leu Leu Gln Leu His Phe Cys Gly Ser Asn Val Ile Arg  
                             165                            170                            175  
 His Phe Phe Cys Asp Met Pro Gln Leu Leu Ile Leu Ser Cys Thr Asp  
                             180                            185                            190  
 Thr Phe Phe Val Gln Val Met Thr Ala Ile Leu Thr Met Phe Phe Gly  
                             195                            200                            205  
 Ile Ala Ser Ala Leu Val Ile Met Ile Ser Tyr Gly Tyr Ile Gly Ile  
 210                            215                            220  
 Ser Ile Met Lys Ile Thr Ser Ala Lys Gly Ser Pro Lys Ala Phe Asn  
 225                            230                            235                            240  
 Thr Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Tyr Thr Ser Gly  
                             245                            250                            255  
 Ile Phe Val Tyr Leu Arg Ser Ser Ser Gly Gly Ser Ser Ser Phe Asp  
                             260                            265                            270  
 Arg Phe Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro  
                             275                            280                            285  
 Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Leu Lys Arg  
                             290                            295                            300  
 Leu Gln Lys Arg Lys Cys Cys  
 305                            310

&lt;210&gt; 2248

&lt;211&gt; 444

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8131622-13-5638-8129)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(444)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2248

Met Thr Val Glu Arg Ser Ser Met Thr Ile Thr Lys Phe Ile Leu Leu  
 1                            5                            10                            15  
 Gly Phe Ser Glu Tyr Ser Lys Thr Thr Ile Phe Leu Phe Ser Val Phe  
                             20                            25                            30  
 Leu Gly Ile Tyr Leu Leu Thr Met Ser Xaa Asn Val Ser Leu Ile Ala  
                             35                            40                            45  
 Leu Ile Arg Thr Asp Ser His Leu His Ala Pro Val Tyr Phe Phe Leu  
                             50                            55                            60  
 Ser Asn Pro Ser Phe Leu Asp Ile Cys Cys Val Ser Thr Ile Ala Pro  
 65                            70                            75                            80  
 Lys Met Pro Ser Asp Phe Phe Lys Lys His Lys Phe Ile Ser Phe Met  
                             85                            90                            95  
 Gly Cys Thr Met Gln Tyr Phe Ser Ser Leu Asn Val Thr Glu Cys Cys  
                             100                            105                            110  
 Leu Leu Thr Ala Met Ala Tyr Asp Xaa Tyr Ala Ala Ile Cys Asp Pro  
                             115                            120                            125  
 Leu Leu Tyr Thr Ala Ile Met Ser Pro Ala Leu Cys Met Pro Met Val  
                             130                            135                            140  
 Ala Gly Ser Cys Thr Thr Gly Tyr Phe Val Ser Phe Ile Gln Leu Cys

145		150		155		160
Ala	Leu	Leu	Leu	Leu	His	Phe
		165		170		175
Cys	Asp	Leu	Pro	Gln	Leu	Leu
		180		185		190
Phe	Phe	Ser	Ser	His	Asp	His
		195		200		205
Leu	Tyr	Leu	Gly	Tyr	His	Asp
		210		215		220
Ser	Ser	Leu	Leu	Trp	Asp	Ala
225				230		235
Val	Xaa	Leu	Ser	Ala	Val	Phe
		245		250		255
Leu	Pro	Phe	Val	Thr	Leu	Cys
		260		265		270
Ser	Val	Cys	Thr	Xaa	Trp	Leu
		275		280		285
His	Leu	Ser	Asn	Tyr	Val	Leu
		290		295		300
Ile	Val	Asn	His	Phe	Phe	Cys
305				310		315
Cys	Tyr	Asp	Thr	Phe	Phe	Cys
		325		330		335
Val	Phe	Gly	Leu	Thr	Ser	Val
		340		345		350
Val	Ile	Ala	Thr	Ile	Leu	Lys
		355		360		365
Val	Phe	Asn	Thr	Gly	Gly	Ser
		370		375		380
Cys	Ser	Arg	Ile	Phe	Val	Tyr
385				390		395
Ser	Arg	Asn	Lys	Val	Asp	Ser
		405		410		415
Leu	Asn	Pro	Leu	Ile	Tyr	Ser
		420		425		430
Leu	Lys	Arg	Trp	Thr	Lys	Arg
		435		440		

&lt;210&gt; 2249

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8131671-12-1836-3192)

&lt;400&gt; 2249

Met	Gly	Val	Lys	Asn	His	Ser	Thr	Val	Thr	Glu	Phe	Leu	Leu	Ser	Gly
1				5					10					15	
Leu	Thr	Glu	Gln	Ala	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Cys	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Thr	Val	Thr	Val	Val	Gly	Asn	Leu	Ser	Met	Ile	Ser	Ile
		35					40					45			
Ile	Arg	Leu	Asn	Arg	Gln	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
		50				55					60				
Ser	Leu	Ser	Phe	Leu	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Ser	Gly	Phe	Leu	Cys	Arg	Asp	Arg	Ser	Ile	Ser	Tyr	Ser	Gly
			85						90					95	
Cys	Met	Ile	Gln	Leu	Phe	Phe	Phe	Cys	Val	Cys	Val	Ile	Ser	Glu	Cys
			100					105					110		
Tyr	Met	Leu	Ala	Ala	Met	Ala	Cys	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Leu	Tyr	Arg	Val	Ile	Met	Ser	Pro	Arg	Val	Cys	Ser	Leu	Leu

130	135	140
Val Ala Ala Val Phe Ser	Val Gly Phe Thr Asp	Ala Val Ile His Gly
145	150	155
Gly Cys Ile Leu Arg Leu	Ser Phe Cys Gly Ser	Asn Ile Ile Lys His
165	170	175
Tyr Phe Cys Asp Ile Val	Pro Leu Ile Lys Leu	Ser Cys Ser Ser Thr
180	185	190
Tyr Ile Asp Glu Leu Leu	Ile Phe Val Ile Gly Gly	Phe Asn Met Val
195	200	205
Ala Thr Ser Leu Thr Ile	Ile Ile Ser Tyr Ala Phe	Ile Leu Thr Ser
210	215	220
Ile Leu Arg Ile His Ser	Lys Lys Gly Arg Cys Lys	Ala Phe Ser Thr
225	230	235
Cys Ser Ser His Leu Thr	Ala Val Leu Met Phe Tyr	Gly Ser Leu Met
245	250	255
Ser Met Tyr Leu Lys Pro	Ala Ser Ser Ser Leu Thr	Gln Glu Lys
260	265	270
Val Ser Ser Val Phe Tyr	Thr Thr Val Ile Leu Met	Leu Asn Pro Leu
275	280	285
Ile Tyr Ser Leu Arg Asn	Asn Glu Val Arg Asn Ala	Leu Met Lys Leu
290	295	300
Leu Arg Arg Lys Ile Ser	Leu Ser	
305	310	

&lt;210&gt; 2250

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8131682-2-1-1878)

&lt;400&gt; 2250

Met Gln Arg Ser Asn His Thr Val Thr Glu Phe Ile Leu Leu Gly Phe	
1	5
Thr Thr Asp Pro Gly Met Gln Leu Gly Leu Phe Val Val Phe Leu Gly	
20	25
Val Tyr Ser Leu Thr Val Val Gly Asn Ser Thr Leu Ile Val Leu Ile	
35	40
Cys Asn Asp Ser Cys Leu His Thr Pro Met Tyr Phe Val Val Gly Asn	
50	55
Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val Tyr Thr Pro Lys Ile	
65	70
Leu Val Thr Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys	
85	90
Leu Cys Gln Phe Phe Phe Ser Ala Gly Leu Ala Tyr Ser Glu Cys Tyr	
100	105
Leu Leu Ala Ala Val Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro	
115	120
Leu Leu Tyr Ala Gln Ala Met Ser Ile Lys Leu Cys Ala Leu Leu Val	
130	135
Ala Val Ser Tyr Cys Gly Gly Phe Ile Asn Ser Ser Ile Ile Thr Lys	
145	150
Lys Thr Phe Ser Phe Asn Phe Cys Arg Glu Asn Ile Ile Asp Asp Phe	
165	170
Phe Cys Asp Leu Leu Pro Leu Val Glu Leu Ala Cys Gly Glu Lys Gly	
180	185
Gly Tyr Lys Ile Met Met Tyr Phe Leu Leu Ala Ser Asn Val Ile Cys	
195	200
Pro Ala Val Leu Ile Leu Ala Ser Tyr Leu Phe Ile Ile Thr Ser Val	
210	215
Leu Arg Ile Ser Ser Ser Lys Gly Tyr Leu Lys Ala Phe Ser Thr Cys	
225	230
Ser Ser His Leu Thr Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr	
	235
	240



245 250 255  
 Ile Tyr Ala Leu Pro Arg Ser Ser Tyr Ser Phe Asp Met Asp Lys Ile  
 260 265 270  
 Val Ser Thr Phe Tyr Thr Val Val Phe Pro Met Leu Asn Leu Met Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu Leu  
 290 295 300  
 Pro  
 305

&lt;210&gt; 2251

&lt;211&gt; 306

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8131682-3-415-2331)

&lt;400&gt; 2251

Met Gln Arg Ser Asn His Thr Val Thr Glu Phe Ile Leu Leu Gly Phe  
 1 5 10 15  
 Thr Thr Asp Pro Gly Met Gln Leu Gly Leu Phe Val Val Phe Leu Gly  
 20 25 30  
 Val Tyr Cys Leu Thr Val Val Gly Ser Ser Thr Leu Ile Val Leu Ile  
 35 40 45  
 Cys Asn Asp Ser Arg Leu His Thr Pro Met Tyr Phe Val Ile Gly Asn  
 50 55 60  
 Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val His Thr Pro Lys Ile  
 65 70 75 80  
 Leu Val Thr Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys  
 85 90 95  
 Leu Cys Gln Phe Ser Ala Arg Leu Ala Tyr Ser Glu Cys Tyr Leu  
 100 105 110  
 Leu Ala Ala Met Ala Tyr Asp His Tyr Val Ala Ile Ser Lys Pro Leu  
 115 120 125  
 Leu Tyr Ala Gln Thr Met Pro Arg Arg Leu Cys Ile Cys Leu Val Leu  
 130 135 140  
 Tyr Ser Tyr Thr Gly Gly Phe Val Asn Ala Ile Ile Leu Thr Ser Asn  
 145 150 155 160  
 Thr Phe Thr Leu Asp Phe Cys Gly Asp Asn Val Ile Asp Asp Phe Phe  
 165 170 175  
 Cys Asp Val Pro Pro Leu Val Lys Leu Ala Cys Ser Val Arg Glu Ser  
 180 185 190  
 Tyr Gln Ala Val Leu His Phe Leu Leu Ala Ser Asn Val Ile Ser Pro  
 195 200 205  
 Thr Val Leu Ile Leu Ala Ser Tyr Leu Ser Ile Ile Thr Thr Ile Leu  
 210 215 220  
 Arg Ile His Ser Thr Gln Gly Arg Ile Lys Val Phe Ser Thr Cys Ser  
 225 230 235 240  
 Ser His Leu Ile Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr Asn  
 245 250 255  
 Tyr Ser Arg Pro Ser Ser Ser Tyr Ser Leu Lys Arg Asp Lys Met Val  
 260 265 270  
 Ser Thr Phe Tyr Thr Met Leu Phe Pro Met Leu Asn Pro Met Ile Tyr  
 275 280 285  
 Ser Leu Arg Ser Lys Asp Met Lys Asp Ala Leu Lys Lys Phe Phe Lys  
 290 295 300  
 Ser Ala  
 305

&lt;210&gt; 2252

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8152118-1-59952-61847)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(324)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2252

```

His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
 1          5          10          15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
 20          25          30
Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser
 35          40          45
Ile Leu Ala Val Arg Ser Glu Ser Pro Leu His Thr Thr Met Tyr Phe
 50          55          60
Phe Leu Ser Ile Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
 65          70          75          80
Val Pro Lys Met Ile Val Asp Met Gln Trp Tyr Ser Lys Val Ile Ser
 85          90          95
His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
 100         105         110
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Gly
 115         120         125
Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
 130         135         140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
 145         150         155         160
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
 165         170         175
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys
 180         185         190
Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Gly Ser Thr Met
 195         200         205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile
 210         215         220
Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
 225         230         235         240
Phe Ser Thr Tyr Gly Ser His Leu Ala Val Phe Cys Xaa Phe Asp Gly
 245         250         255
Thr Gly Ile Gly Val Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Arg
 260         265         270
Asn Gly Val Val Val Ser Val Lys Xaa Ala Val Val Thr Pro Met Pro
 275         280         285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
 290         295         300
Arg Arg Leu Pro Asn Lys Thr Val Glu Ser Pro Xaa Ser Val Pro Ser
 305         310         315         320
Phe Phe Trp Cys

```

&lt;210&gt; 2253

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8247820-10-10207-11695)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(212)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2253

```

Thr Met Phe Tyr Lys Ile Ser Ala Leu Phe Xaa Cys Xaa Cys Ile Thr
 1      5      10      15
Leu Phe Xaa Xaa Lys Leu Ser Lys Gln Lys Ile Tyr Trp Val Leu Thr
      20      25      30
Ile Phe Gly Phe Leu Glu Ala Phe Ile Ala Met Asn Lys Leu Xaa Lys
      35      40      45
Leu Tyr Ser Ser Leu Ile Cys Leu Tyr Phe Ile Ile Xaa Ile Phe Lys
      50      55      60
Phe Ser Asn Met Phe Ile Phe Tyr Asn Met Asn Ile Ser Val His Tyr
65      70      75      80
Phe Leu Lys Cys Ile Phe Phe Phe Cys Ile Cys Cys Leu Xaa Leu Leu
      85      90      95
Ile Phe Asp Ser Phe Ser Thr His Pro Pro Leu Pro Leu Leu Xaa Glu
      100      105      110
Ala Asp Ile Cys Ala Asn Ser Xaa Pro Cys Tyr Thr Asn Thr Thr Ala
      115      120      125
Ser Xaa Xaa His Phe Tyr Ile Ile Leu Asn Phe Cys Leu Ser Tyr Xaa
      130      135      140
Pro Ser Val Ser Ser Met Leu Tyr Gly Arg Leu Phe Leu Met Tyr Leu
145      150      155      160
Met Pro Glu Asn Ser Leu Asp Thr Asp Arg Met Ala Ser Val Phe Tyr
      165      170      175
Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Trp Ser Pro Arg Asn
      180      185      190
Lys Asp Val Thr Ser Ala Leu Arg Lys Val Met Val Asn Arg Lys Gln
      195      200      205
Ala Leu Phe Cys
      210

```

&lt;210&gt; 2254

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8247820-11-34143-40656)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(314)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2254

```

Ile Xaa Met Ala Asp Arg Asn Val Thr Val Ile Thr Glu Phe Ile Leu
 1      5      10      15
Leu Gly Leu Thr Asp Asn Pro Glu Met Asn Val Val Leu Ser Val Leu
      20      25      30
Phe Leu Leu Ile Tyr Leu Ile Thr Val Leu Gly Asn Phe Trp Ile Ile
      35      40      45
Ile Ile Ile Leu Ala Ser Ala Gln Leu His Ser Pro Met Tyr Phe Phe
      50      55      60
Leu Ser Gln Leu Ala Phe Leu Asp Phe Cys Tyr Ser Ser Val Leu Ile
65      70      75      80
Pro Lys Met Leu Val Asn Tyr Ile Ala Gly Gln Lys Val Ile Ser Tyr
      85      90      95
His Gly Cys Leu Leu Gln Tyr Ser Phe Val Ser Leu Phe Leu Thr Thr
      100      105      110
Glu Cys Phe Leu Leu Ala Ala Met Ala Cys Asp Arg Tyr Leu Ala Val
      115      120      125
Cys His Pro Leu His Tyr Lys Gly Leu Met Thr Pro Thr Phe Xaa Ile
      130      135      140
Tyr Leu Val Thr Val Ser Tyr Leu Leu Gly Ser Val Asn Ser Leu Thr
145      150      155      160
His Leu Ser Ser Leu Leu Ser Leu Ser Phe Cys Gly Ser Asn Val Ile

```

```

                165                170                175
Asn Arg Tyr Phe Cys Asp Ile Pro Leu Leu Phe Gln Leu Ser Cys Ser
                180                185                190
Asn Thr Gln His Ser Lys Ile Leu Phe Thr Val Leu Ser Gly Ala Thr
                195                200                205
Ser Val Thr Thr Phe Leu Ile Val Val Ser Ser Tyr Leu Val Ile Leu
                210                215                220
Leu Ile Val Leu Lys Ile His Ser Thr Arg Gly Arg Asn Lys Ala Ile
225                230                235                240
Ser Thr Cys Ala Ser His Leu Met Val Val Thr Leu Phe Tyr Arg Thr
                245                250                255
Val Ile Phe Thr Tyr Leu Gly Ala Asn Pro Gly Tyr Ser Gln Asp Arg
                260                265                270
Pro Lys Ile Leu Pro Val Glu Cys Thr Leu Leu Leu Ser Ile Leu Asn
275                280                285
Leu Leu Ile Tyr Ser Val Arg Asn Arg Glu Val Lys Glu Ala Ile Lys
290                295                300
Ile Ile Ile Lys Arg Lys Ile Leu Pro Gln
305                310

```

&lt;210&gt; 2255

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8247820-7-4578-5918)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(245)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2255

```

Met Ser Xaa Xaa Ile Phe Cys Leu Pro Lys Ile Ile Ile Thr Leu Leu
 1                5                10                15
Gln Xaa Glu Trp Asp Ala Leu Asn Leu Glu Thr Arg Val Phe Leu Glu
                20                25                30
Glu Asp Phe Pro Cys Gly Phe Ser Leu Trp Ile Val Arg Gln Leu Ser
                35                40                45
Phe Phe Leu Glu Ile Asn Xaa Phe Ala His Leu Lys Lys Xaa Cys Arg
                50                55                60
Lys His Thr Ser Thr Phe Ser Leu Ser Asn Leu Ala Phe Xaa Asp Phe
65                70                75                80
Cys Tyr Ala Ser Val Ile Thr Ser Lys Met Phe Gly Ser Phe Leu Tyr
                85                90                95
Lys Gln Lys Lys Leu Thr Phe Asn Ala Leu Gly Cys Ser Leu Thr Phe
                100                105                110
Met Thr Thr Glu Cys Leu Leu Leu Ala Phe Met Ala Cys Asp Gln Tyr
                115                120                125
Leu Val Ile Cys Asn Pro Pro Leu Tyr Met Val Thr Met Ser Pro Pro
                130                135                140
Gln Gly Val Cys Ile Gln Leu Met Pro Ala Ser Tyr Ser Tyr Ser Phe
145                150                155                160
Leu Met Thr Leu Ser His Tyr Leu Ser Ala Phe Arg Leu Pro Tyr Cys
                165                170                175
Pro Ser Val Ser Leu Met Phe Asn Gly Ser Leu Phe Leu Tyr Cys Thr
                180                185                190
Xaa Cys Ser Glu Asn Ser Leu Asp Thr Asp Arg Met Ala Ser Val Phe
                195                200                205
Tyr Thr Val Val Ile Pro Met Leu Ser Pro Leu Ile Trp Ser Leu Arg
210                215                220
Asn Lys Asp Val Lys Asp Ala Leu Arg Lys Val Ile Val Asn Arg Asn
225                230                235                240

```

Gln Ala Leu Phe Cys  
245

<210> 2256  
<211> 302  
<212> PRT  
<213> Homo sapien (8308370-1-1-2758)

<220>  
<221> VARIANT  
<222> (1)...(302)  
<223> Xaa = Any Amino Acid

<400> 2256  
Ile Arg Glu Thr His Ser His Val Pro Tyr Thr Ser Val Phe Leu Pro  
1 5 10 15  
Val Phe Tyr Thr Ala Val Phe Leu Thr Gly Val Leu Gly Asn Leu Val  
20 25 30  
Leu Met Gly Ala Leu His Phe Lys Pro Gly Ser Arg Arg Leu Ile Asp  
35 40 45  
Ile Phe Ile Ile Asn Leu Ala Ala Ser Asp Phe Ile Val Ser Cys His  
50 55 60  
Ile Ala Ser Leu Gly Gly Xaa Arg Thr Ser Leu Gly Leu Trp Arg Thr  
65 70 75 80  
Gly Ser Phe Leu Cys Lys Gly Ser Ser Tyr Met Ile Ser Val Asn Met  
85 90 95  
His Cys Ser Val Leu Leu Leu Thr Cys Met Ser Val Asp Arg Tyr Leu  
100 105 110  
Ala Ile Val Trp Pro Val Val Ser Arg Lys Phe Arg Arg Thr Asp Cys  
115 120 125  
Ala Tyr Val Val Cys Ala Ser Ile Trp Phe Asn Leu Leu Pro Ala Gly  
130 135 140  
Val Ala Tyr Ser Ser Val Gln Gly Ala His Ala Val Asp Asp Lys Pro  
145 150 155 160  
Tyr Cys Ala Glu Lys Lys Ala Thr Pro Ile Lys Leu Ile Trp Ser Leu  
165 170 175  
Val Ala Leu Ile Phe Thr Phe Phe Val Pro Leu Leu Ser Ile Val Thr  
180 185 190  
Cys Tyr Cys Cys Ile Ala Arg Lys Leu Cys Ala His Tyr Gln Gln Ser  
195 200 205  
Gly Lys His Asn Lys Lys Leu Lys Lys Ser Ile Lys Ile Ile Phe Ile  
210 215 220  
Val Val Ala Ala Phe Leu Val Ser Trp Leu Pro Phe Asn Thr Phe Lys  
225 230 235 240  
Phe Leu Ala Ile Val Ser Gly Leu Arg Gln Glu His Tyr Leu Pro Ser  
245 250 255  
Ala Ile Leu Gln Leu Gly Met Glu Val Ser Gly Pro Leu Ala Phe Ala  
260 265 270  
Asn Ser Cys Val Asn Pro Phe Ile Tyr Tyr Ile Phe Asp Ser Tyr Ile  
275 280 285  
Arg Arg Ala Ile Val His Cys Leu Cys Pro Cys Leu Lys Asn  
290 295 300

<210> 2257  
<211> 336  
<212> PRT  
<213> Homo sapien (8318124-7-422-2124)

<220>  
<221> VARIANT  
<222> (1)...(336)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2257

Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu Leu  
 1 5 10 15  
 Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Val Ala Gly Leu Phe  
 20 25 30  
 Leu Ser Met Cys Leu Val Met Val Leu Glu Asn Leu Leu Ile Ile Leu  
 35 40 45  
 Asp Val Ser Pro Asp Ser His Leu Pro Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro  
 65 70 75 80  
 Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Tyr Ala Gly  
 85 90 95  
 Cys Leu Thr Val Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu  
 100 105 110  
 Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys  
 115 120 125  
 His Pro Leu Tyr Arg Ser Ala Thr Leu Asn Pro Cys Phe Cys Gly Phe  
 130 135 140  
 Leu Asp Leu Leu Ser Phe Phe Phe Ser Leu Arg Leu Leu Asp Ser  
 145 150 155 160  
 Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val  
 165 170 175  
 Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala  
 180 185 190  
 Cys Cys Asp Thr Phe Thr Arg Asn Ile Ser Met Tyr Phe Pro Ala Ala  
 195 200 205  
 Val Phe Gly Phe Leu Ser Ile Ser Gly Thr Leu Phe Ser Tyr Cys Lys  
 210 215 220  
 Met Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys  
 225 230 235 240  
 Ala Phe Ser Thr Xaa Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr  
 245 250 255  
 Gly Thr Gly Phe Gly Glu Tyr Leu Gly Ser Asp Val Ser Ser Pro  
 260 265 270  
 Arg Lys Gly Ala Val Ala Ser Val Met Tyr Ser Val Val Thr Pro Met  
 275 280 285  
 Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Gly Asp Ile Lys Ser Val  
 290 295 300  
 Leu Arg Arg Pro Gln Gly Ser Thr Val Ser Ser Gln Tyr Leu Leu Ile  
 305 310 315 320  
 Cys Ser Ile Pro Phe Val Gly Trp Val Asn Lys Asp Ser Lys Val Lys  
 325 330 335

&lt;210&gt; 2258

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8348136-100-2086-3409)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(319)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2258

Ser His Thr Glu Pro Gln Asn Leu Thr Gly Val Ser Glu Phe Leu Leu  
 1 5 10 15  
 Leu Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Leu Leu Ala Gly Leu  
 20 25 30

```

Phe Leu Ser Met Cys Leu Val Thr Met Leu Arg Glu Leu Leu Ile Ile
  35      40      45
Leu Ala Val Thr Ser Asp Ser His Leu His Ile Pro Met Tyr Phe Phe
  50      55      60
Leu Ser Asn Leu Val Leu Gly His Asp Ile Gly Phe Thr Xaa Ala Thr
  65      70      75      80
Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
      85      90      95
His Ala Gly Cys Leu Thr Gln Ile Pro Phe Phe Val Leu Phe Val Cys
      100      105      110
Ile Asp Asp Met Leu Leu Thr Val Met Ala Tyr Asp Xaa Phe Val Ala
      115      120      125
Ile Cys His Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Cys
      130      135      140
Val Phe Leu Val Leu Met Phe Phe Leu Ser Leu Leu Asp Ser Xaa Leu
  145      150      155      160
His Asn Trp Ile Val Gln Phe Thr Cys Phe Lys Asn Val Glu Ile Ser
      165      170      175
Asn Phe Phe Cys Asp Xaa Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp
      180      185      190
Val Ile Ser Asn Ile Phe Ile His Leu Asp Ser Thr Ile Phe Gly Phe
      195      200      205
Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro Ser
      210      215      220
Ile Leu Arg Ile Pro Leu Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr
  225      230      235      240
Cys Gly Ser His Leu Ala Ile Val Cys Leu Phe Tyr Gly Thr Gly Ile
      245      250      255
Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Ala Pro Arg Asn Gly Val
      260      265      270
Val Ala Ser Val Leu Tyr Ala Ile Val Thr Pro Met Leu Asn Pro Phe
      275      280      285
Ile Cys Ser Leu Arg Asn Arg Gly Ile Gln Ser Ala Leu Trp Arg Leu
      290      295      300
Cys Arg Arg Lys Val Xaa Ser His Asp Leu Phe His Pro Phe Ser
  305      310      315

```

&lt;210&gt; 2259

&lt;211&gt; 186

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8389427-13-4913-5701)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(186)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2259

```

Pro Val Pro Gln His Leu Phe Phe Phe Leu Lys Val Thr Gly His Leu
  1      5      10      15
Leu Thr Xaa Ile Arg Asn Leu Xaa Phe Val Pro Asp Phe Ser Phe Ser
      20      25      30
Leu Ala Leu His Ile Tyr Gln Xaa Tyr Xaa Phe Xaa Thr Asn Leu Asn
      35      40      45
Glu Leu His Leu Cys Pro Ser Leu Ile Ser Pro Pro Ser Leu Ser Val
      50      55      60
His Xaa Leu Arg Leu His His Val Asn Tyr Tyr His Gly Met Leu Thr
  65      70      75      80
Glu Leu Leu Leu Pro Met Val Pro Cys His Asn Ser Ser Phe Ile Trp
      85      90      95
Leu Pro Ile Asn Phe Xaa Lys Phe Ile Cys Ile Cys Tyr Phe Ser Gly

```

```

      100              105              110
Xaa Lys Leu Pro Met His Val Glu Asp Gly Met Gln Thr Ala Leu His
      115              120              125
Ala Cys Pro Leu Leu Met Gln Leu Leu Leu Ser Ile Pro His Ser Tyr
      130              135              140
Pro Leu Leu Leu Asp Asn Ser Phe Leu Phe Leu Arg Leu His Pro Arg
145              150              155              160
Ser Lys Leu Ser Tyr Phe Leu His Ile Leu Leu Ser Xaa Pro Phe Thr
      165              170              175
Tyr Val Asn His Leu Leu Pro Phe Leu Leu
      180              185

```

&lt;210&gt; 2260

&lt;211&gt; 304

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8389428-12-1-2464)

&lt;400&gt; 2260

```

Met Arg Asn Gly Thr Val Ile Thr Glu Phe Ile Leu Leu Gly Phe Pro
 1              5              10              15
Val Ile Gln Gly Leu Gln Thr Pro Leu Phe Ile Ala Ile Phe Leu Thr
      20              25              30
Tyr Ile Leu Thr Leu Ala Gly Asn Gly Leu Ile Ile Ala Thr Val Trp
      35              40              45
Ala Glu Pro Arg Leu Gln Ile Pro Met Tyr Phe Phe Leu Cys Asn Leu
      50              55              60
Ser Phe Leu Glu Ile Trp Tyr Thr Thr Thr Val Ile Pro Lys Leu Leu
65              70              75              80
Gly Thr Phe Val Val Ala Arg Thr Val Ile Cys Met Ser Cys Cys Leu
      85              90              95
Leu Gln Ala Phe Phe His Phe Phe Val Gly Thr Thr Glu Phe Leu Ile
      100              105              110
Leu Thr Ile Met Ser Phe Asp Arg Tyr Leu Thr Ile Cys Asn Pro Leu
      115              120              125
His His Pro Thr Ile Met Thr Ser Lys Leu Cys Leu Gln Leu Ala Leu
      130              135              140
Ser Ser Trp Val Val Gly Phe Thr Ile Val Phe Cys Gln Thr Met Leu
145              150              155              160
Leu Ile Gln Leu Pro Phe Cys Gly Asn Asn Val Ile Ser His Phe Tyr
      165              170              175
Cys Asp Val Gly Pro Ser Leu Lys Ala Ala Cys Ile Asp Thr Ser Ile
      180              185              190
Leu Glu Leu Leu Gly Val Ile Ala Thr Ile Leu Val Ile Pro Gly Ser
      195              200              205
Leu Leu Phe Asn Met Ile Ser Tyr Ile Tyr Ile Leu Ser Ala Ile Leu
      210              215              220
Arg Ile Pro Ser Ala Thr Gly His Gln Lys Thr Phe Ser Thr Cys Ala
225              230              235              240
Ser His Leu Thr Val Val Ser Leu Leu Tyr Gly Ala Val Leu Phe Met
      245              250              255
Tyr Leu Arg Pro Thr Ala His Ser Ser Phe Lys Ile Asn Lys Val Val
      260              265              270
Ser Val Leu Asn Thr Ile Leu Thr Pro Leu Leu Asn Pro Phe Ile Tyr
      275              280              285
Thr Ile Arg Asn Lys Glu Val Lys Gly Ala Leu Arg Lys Ala Met Thr
      290              295              300

```

&lt;210&gt; 2261

&lt;211&gt; 275

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8439748-1-6412-8052)



<220>  
 <221> VARIANT  
 <222> (1)...(275)  
 <223> Xaa = Any Amino Acid

<400> 2261

Thr	Ile	Ile	Asn	Val	Asn	Ile	Ser	Pro	Glu	Phe	Val	Leu	Val	Gly	Phe
1				5					10					15	
Ser	Ser	Asp	Ala	Glu	Ile	Gln	Ile	Met	Leu	Phe	Val	Leu	Ile	Leu	Val
			20					25					30		
Ile	His	Leu	Leu	Thr	Leu	Thr	Gly	Lys	Leu	Val	Met	Ile	Leu	Glu	Ile
		35				40						45			
Arg	Ala	Asp	Ser	His	Leu	Gln	Arg	Pro	Met	Tyr	Phe	Phe	Leu	Xaa	His
	50					55					60				
Leu	Ser	Phe	Leu	Asp	Leu	Ser	Tyr	Ser	Ser	Val	Thr	Val	Pro	Arg	Met
65				70					75					80	
Leu	Gln	Asn	Phe	Leu	Ser	Gly	Arg	Lys	Ala	Ser	Gln	Cys	Gly	Ala	Ala
			85					90					95		
Ser	Pro	Ser	Phe	Phe	Phe	Thr	Leu	Ser	Gly	Gly	Thr	Glu	Ala	Cys	Leu
			100					105					110		
Phe	Ser	Ala	Met	Ala	Tyr	Asp	His	Tyr	Ala	Thr	Ile	Arg	His	Pro	Val
		115				120					125				
Val	Tyr	Thr	Met	Val	Met	Asn	Arg	Ser	Leu	Cys	Met	Val	Ile	Leu	Arg
	130					135					140				
Ile	Ala	Trp	Ala	Ala	Gly	Phe	Leu	Ile	Ser	Leu	Met	Asp	Ser	Leu	Phe
145					150				155					160	
Thr	His	Lys	Leu	His	Phe	Cys	Gly	Pro	Asp	Ile	Ile	Pro	Tyr	Phe	Arg
				165					170					175	
Cys	Lys	Leu	Pro	Pro	Phe	Phe	Pro	Leu	Ser	Tyr	Ile	Asp	Pro	Thr	Val
		180						185					190		
Asn	Glu	Ile	Leu	Leu	Ala	Val	Ser	Gln	Ala	Phe	Trp	Gly	Leu	Leu	Thr
		195				200						205			
Leu	Ser	Leu	Ile	Phe	Phe	Ser	Tyr	Ser	Arg	Ile	Thr	Ser	Val	Ile	Leu
		210				215					220				
Ser	Ile	Cys	Ser	Ser	Glu	Gly	Gln	Gly	Lys	Ala	Phe	Ser	Ala	Cys	Pro
225					230				235					240	
Ser	His	Leu	Ala	Val	Val	Leu	Ser	Phe	Tyr	Gly	Thr	Ala	Phe	Phe	Arg
			245					250					255		
Tyr	Pro	Gly	Ser	Thr	Ser	Gly	Ser	Val	Leu	Gly	Gln	Val	Val	Ser	Val
			260					265					270		
Gln	Tyr	Ser													
		275													

<210> 2262  
 <211> 317  
 <212> PRT  
 <213> Homo sapien (8439748-5-3942-6516)

<400> 2262

Met	Leu	Arg	Asn	Gly	Ser	Ile	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly	Phe
1				5					10					15	
Gln	Gln	Ser	Ser	Thr	Ser	Thr	Arg	Ala	Leu	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Leu	Tyr	Ser	Leu	Thr	Met	Ala	Met	Asn	Gly	Leu	Ile	Ile	Phe	Ile
		35				40						45			
Thr	Ser	Trp	Thr	Asp	Pro	Lys	Leu	Asn	Ser	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Gly	His	Leu	Ser	Leu	Leu	Asp	Val	Cys	Phe	Ile	Thr	Thr	Thr	Ile	Pro
65					70				75					80	
Gln	Met	Leu	Ile	His	Leu	Val	Val	Arg	Asp	His	Ile	Val	Ser	Phe	Val

				85					90				95				
Cys	Cys	Met	Thr	Gln	Met	Tyr	Phe	Val	Phe	Cys	Val	Gly	Val	Ala	Glu		
			100					105					110				
Cys	Ile	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys		
		115					120					125					
Tyr	Pro	Leu	Asn	Tyr	Val	Pro	Ile	Ile	Ser	Gln	Lys	Val	Cys	Val	Arg		
	130					135					140						
Leu	Val	Gly	Thr	Ala	Trp	Phe	Phe	Gly	Leu	Ile	Asn	Gly	Ile	Phe	Leu		
145					150					155					160		
Glu	Tyr	Ile	Ser	Phe	Arg	Glu	Pro	Phe	Arg	Arg	Asp	Asn	His	Ile	Glu		
				165				170						175			
Ser	Phe	Phe	Cys	Glu	Ala	Pro	Ile	Val	Ile	Gly	Leu	Ser	Cys	Gly	Asp		
			180					185					190				
Pro	Gln	Phe	Ser	Leu	Trp	Ala	Ile	Phe	Ala	Asp	Ala	Ile	Val	Val	Ile		
	195					200						205					
Leu	Ser	Pro	Met	Val	Leu	Thr	Val	Thr	Ser	Tyr	Val	His	Ile	Leu	Ala		
	210					215					220						
Thr	Ile	Leu	Ser	Lys	Ala	Ser	Ser	Ser	Gly	Arg	Gly	Lys	Thr	Phe	Ser		
225				230					235					240			
Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ile	Phe	Leu	Tyr	Thr	Ser	Ala		
				245				250						255			
Met	Phe	Ser	Tyr	Met	Asn	Pro	His	Ser	Thr	His	Gly	Pro	Asp	Lys	Asp		
			260					265					270				
Lys	Pro	Phe	Ser	Leu	Leu	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Cys	Asn	Pro		
	275					280					285						
Ile	Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Glu	Ile	Lys	Glu	Ala	Met	Val	Arg		
	290					295					300						
Ala	Leu	Gly	Arg	Thr	Arg	Leu	Ala	Gln	Pro	Gln	Ser	Val					
305					310					315							

&lt;210&gt; 2263

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8439993-14-9565-12410)

&lt;400&gt; 2263

Met	Leu	His	Thr	Asn	Asn	Thr	Gln	Phe	His	Pro	Ser	Thr	Phe	Leu	Val		
1				5				10					15				
Val	Gly	Val	Pro	Gly	Leu	Glu	Asp	Val	His	Val	Trp	Ile	Gly	Phe	Pro		
			20					25					30				
Phe	Phe	Ala	Val	Tyr	Leu	Thr	Ala	Leu	Leu	Gly	Asn	Ile	Ile	Ile	Leu		
		35					40					45					
Phe	Val	Ile	Gln	Thr	Glu	Gln	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Phe		
	50					55					60						
Leu	Ala	Met	Leu	Ala	Gly	Thr	Asp	Leu	Gly	Leu	Ser	Thr	Ala	Thr	Ile		
65					70					75					80		
Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Leu	Gly	Glu	Ile	Ala	Phe		
				85				90						95			
Gly	Ala	Cys	Ile	Thr	Gln	Met	Tyr	Thr	Ile	His	Ile	Cys	Thr	Gly	Leu		
			100					105					110				
Glu	Ser	Val	Val	Leu	Thr	Val	Thr	Gly	Ile	Asp	Arg	Tyr	Ile	Ala	Ile		
		115						120				125					
Cys	Asn	Pro	Leu	Arg	Tyr	Ser	Met	Ile	Leu	Thr	Asn	Lys	Val	Ile	Ala		
	130					135					140						
Ile	Leu	Gly	Ile	Val	Ile	Ile	Val	Arg	Thr	Leu	Val	Phe	Val	Thr	Pro		
145					150					155					160		
Phe	Thr	Phe	Leu	Thr	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Val	Arg	Ile	Ile		
				165				170						175			
Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Leu	Ala	Lys	Leu	Ala	Cys	Ala		
		180						185					190				
Ser	Ile	Asn	Val	Ile	Tyr	Gly	Leu	Ile	Ala	Phe	Ser	Val	Gly	Tyr	Ile		

```

      195              200              205
Asp Ile Ser Val Ile Gly Phe Ser Tyr Val Gln Ile Leu Arg Ala Val
  210              215              220
Phe His Leu Pro Ala Trp Asp Ala Arg Leu Lys Ala Leu Ser Thr Cys
  225              230              235              240
Gly Ser His Val Cys Val Met Leu Ala Phe Tyr Leu Pro Ala Leu Phe
      245              250              255
Ser Phe Met Thr His Arg Phe Gly His Asn Ile Pro His Tyr Ile His
      260              265              270
Ile Leu Leu Ala Asn Leu Tyr Val Val Phe Pro Pro Ala Leu Asn Ser
      275              280              285
Val Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Gln Val Leu Arg
      290              295              300
Ile Leu Asn Pro Lys Ser Phe Trp His Phe Asp Pro Lys Arg Ile Phe
  305              310              315              320

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&lt;210&gt; 2264

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8439993-17-12459-15729)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(329)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2264

```

Met Asn Gly Ala Asn Ser Ser Ser Leu Thr Pro Arg Tyr Phe Ile Leu
  1              5              10              15
Ser Gly Val Pro Gly Leu Glu Ala Ala His Ile Trp Ile Ser Leu Pro
      20              25              30
Phe Cys Phe Met Tyr Ile Ile Val Val Leu Gly Asn Cys Gly Leu Ile
      35              40              45
Tyr Leu Ile Ser His Glu Glu Ala Leu His Gln Pro Thr Tyr Tyr Phe
      50              55              60
Leu Asp Leu Leu Ser Leu Thr Asp Val Thr Gly Cys Thr Ser Phe Val
  65              70              75              80
Pro Asn Met Leu Cys Ile Phe Trp Phe Gly Leu Lys Glu Ile Asp Phe
      85              90              95
Asn Ala Cys Leu Val Gln Met Phe Phe Ile His Met Leu Thr Gly Met
      100              105              110
Glu Ser Gly Ala Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
      115              120              125
Cys Tyr Pro Leu His Tyr Ser Thr Ile Phe Thr Asn Thr Val Ile Thr
      130              135              140
Lys Val Gly Leu Val Thr Phe Ile Gln Ser Val Leu Leu Met Ile Pro
  145              150              155              160
Phe Ala Phe Leu Ile Lys Cys Leu Pro Tyr Cys Arg Gly Asn Leu Ile
      165              170              175
His His Thr Tyr Cys Xaa His Met Ser Val Ala Lys Leu Ser Cys Gly
      180              185              190
Asn Val Gln Ile Asn Ala Ile Tyr Gly Leu Ile Ala Ala Ile Leu Ile
      195              200              205
Gly Gly Phe Asp Met Phe Cys Ile Ser Met Ser Tyr Thr Met Ile Ile
      210              215              220
Arg Ala Val Val Asn Leu Ser Ser Ala Asp Ala Arg His Lys Ala Phe
  225              230              235              240
Ser Thr Cys Thr Ala His Ile Cys Ala Ile Phe Ile Thr Tyr Val Pro
      245              250              255
Ala Phe Phe Asn Phe Phe Thr His Arg Phe Gly Gly His Thr Ile Pro
      260              265              270

```

His His Val His Ile Phe Ile Ala Asn Leu Tyr Leu Met Leu Pro Pro  
 275 280 285  
 Thr Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu  
 290 295 300  
 Gly Val Ile Lys Leu Phe Phe Arg Glu Lys Val Tyr Phe Lys Tyr Asp  
 305 310 315 320  
 Ile Asn Leu Xaa Tyr Arg Ser Leu Asn  
 325

&lt;210&gt; 2265

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8439993-2-191-1624)

&lt;400&gt; 2265

Met Pro Leu Phe Asn Ser Leu Cys Trp Phe Pro Thr Ile His Val Thr  
 1 5 10 15  
 Pro Pro Ser Phe Ile Leu Asn Gly Ile Pro Gly Leu Glu Arg Val His  
 20 25 30  
 Val Trp Ile Ser Leu Pro Leu Cys Thr Met Tyr Ile Ile Phe Leu Val  
 35 40 45  
 Gly Asn Leu Gly Leu Val Tyr Leu Ile Tyr Tyr Glu Glu Ser Leu His  
 50 55 60  
 His Pro Met Tyr Phe Phe Phe Gly His Ala Leu Ser Leu Ile Asp Leu  
 65 70 75 80  
 Leu Thr Cys Thr Thr Thr Leu Pro Asn Ala Leu Cys Ile Phe Trp Phe  
 85 90 95  
 Ser Leu Lys Glu Ile Asn Phe Asn Ala Cys Leu Ala Gln Met Phe Phe  
 100 105 110  
 Val His Gly Phe Thr Gly Val Glu Ser Gly Val Leu Met Leu Met Ala  
 115 120 125  
 Leu Asp Arg Tyr Val Ala Ile Cys Tyr Pro Leu Arg Tyr Ala Thr Thr  
 130 135 140  
 Leu Thr Asn Pro Ile Ile Ala Lys Ala Glu Leu Ala Thr Phe Leu Arg  
 145 150 155 160  
 Gly Val Leu Leu Met Ile Pro Phe Pro Phe Leu Val Lys Arg Leu Pro  
 165 170 175  
 Phe Cys Gln Ser Asn Ile Ile Ser His Thr Tyr Cys Asp His Met Ser  
 180 185 190  
 Val Val Lys Leu Ser Cys Ala Ser Ile Lys Val Asn Val Ile Tyr Gly  
 195 200 205  
 Leu Met Val Ala Leu Leu Ile Gly Val Phe Asp Ile Cys Cys Ile Ser  
 210 215 220  
 Leu Ser Tyr Thr Leu Ile Leu Lys Ala Ala Ile Ser Leu Ser Ser Ser  
 225 230 235 240  
 Asp Ala Arg Gln Lys Ala Phe Ser Thr Cys Thr Ala His Ile Ser Ala  
 245 250 255  
 Ile Ile Ile Thr Tyr Val Pro Ala Phe Phe Thr Phe Phe Ala His Arg  
 260 265 270  
 Phe Gly Gly His Thr Ile Pro Pro Ser Leu His Ile Ile Val Ala Asn  
 275 280 285  
 Leu Tyr Leu Leu Leu Pro Pro Thr Leu Asn Pro Ile Val Tyr Gly Val  
 290 295 300  
 Lys Thr Lys Gln Ile Arg Lys Ser Val Ile Lys Phe Phe Gln Gly Asp  
 305 310 315 320  
 Lys Gly Ala Gly

&lt;210&gt; 2266

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8516051-13-18887-21998)

&lt;400&gt; 2266

```

Met Asp Thr Gly Asn Trp Ser Gln Val Ala Glu Phe Ile Ile Leu Gly
 1          5          10          15
Phe Pro His Leu Gln Gly Val Gln Ile Tyr Leu Phe Leu Leu Leu
 20          25          30
Leu Ile Tyr Leu Met Thr Val Leu Gly Asn Leu Leu Ile Phe Leu Val
 35          40          45
Val Cys Leu Asp Ser Arg Leu His Thr Pro Met Tyr His Phe Val Ser
 50          55          60
Ile Leu Ser Phe Ser Glu Leu Gly Tyr Thr Ala Ala Thr Ile Pro Lys
 65          70          75          80
Met Leu Ala Asn Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ser Gly
 85          90          95
Cys Leu Leu Gln Ile Tyr Phe Phe His Ser Leu Gly Ala Thr Glu Cys
100          105          110
Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg
115          120          125
Pro Leu His Tyr Pro Thr Leu Met Thr Pro Thr Leu Cys Ala Glu Ile
130          135          140
Ala Ile Gly Cys Trp Leu Gly Gly Leu Ala Gly Pro Val Val Glu Ile
145          150          155          160
Ser Leu Ile Ser Arg Leu Pro Phe Cys Gly Pro Asn Arg Ile Gln His
165          170          175
Val Phe Cys Asp Phe Pro Pro Val Leu Ser Leu Ala Cys Thr Asp Thr
180          185          190
Ser Ile Asn Val Leu Val Asp Phe Val Ile Asn Ser Cys Lys Ile Leu
195          200          205
Ala Thr Phe Leu Leu Ile Leu Cys Ser Tyr Val Gln Ile Ile Cys Thr
210          215          220
Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Arg Lys Ala Ile Ser Thr
225          230          235          240
Cys Ala Ser His Phe Thr Val Val Leu Ile Phe Tyr Gly Ser Ile Leu
245          250          255
Ser Met Tyr Val Gln Leu Lys Lys Ser Tyr Ser Leu Asp Tyr Asp Gln
260          265          270
Ala Leu Ala Val Val Tyr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe
275          280          285
Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Glu Ala Val Arg Arg Gln
290          295          300
Leu Lys Arg Ile Gly Ile Leu Ala
305          310

```

&lt;210&gt; 2267

&lt;211&gt; 289

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8516051-8-7333-8874)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(289)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2267

```

Leu Leu Phe Phe Ile Leu Leu Leu Leu Ile Tyr Leu Phe Thr Ile Ile
 1          5          10          15
Gly Ser Leu Met Val Phe Phe Ala Ile Lys Leu Asp Phe Cys Leu His
 20          25          30
Ser Ser Leu Tyr Phe Phe Ile Ser Val Leu Ser Phe Leu Glu Ile Trp
 35          40          45

```

Tyr Thr Thr Ile Thr Ile Pro Lys Met Phe Phe Asn Leu Ala Ser Glu  
 50 55 60  
 Gln Lys Thr Thr Ser Leu Asp Gly Cys Leu Leu Gln Met Tyr Phe Phe  
 65 70 75 80  
 Tyr Ser Leu Gly Ile Thr Glu Val Cys Leu Leu Thr Thr Arg Ala Met  
 85 90 95  
 Asp Arg Tyr Leu Ala Ile Cys Asn His Leu Cys Tyr Pro Thr Val Thr  
 100 105 110  
 Thr Pro Xaa Leu Tyr Thr Gln Val Ile Leu Gly Cys Cys Ile Cys Gly  
 115 120 125  
 Phe Phe Thr Leu Leu Pro Glu Ile Ala Trp Ile Ser Thr Leu Pro Phe  
 130 135 140  
 Cys Gly Pro Asn Gln Ile His Asn Ile Phe Cys Asp Leu Asp Pro Ile  
 145 150 155 160  
 Leu Asn Leu Ala Cys Val Asp Thr Gly Pro Val Val Leu Ile Lys Val  
 165 170 175  
 Val Asp Ile Val His Ala Val Glu Ile Ile Thr Ala Ile Met Leu Val  
 180 185 190  
 Thr Leu Ala Tyr Val Gln Ile Ile Ala Val Ile Leu Arg Asn Cys Ser  
 195 200 205  
 Ala Asp Gly Cys Gln Lys Ala Phe Ser Thr Tyr Ala Phe His Leu Ala  
 210 215 220  
 Ile Phe Leu Ile Phe Phe Gly Ser Val Ala Leu Met Tyr Leu Leu Phe  
 225 230 235 240  
 Ser Ala Lys Tyr Ser Phe Phe Trp Asp Thr Thr Ile Ser Leu Met Phe  
 245 250 255  
 Ala Val Leu Ser Pro Thr Pro Ile Ile Cys Ser Leu Arg Asn Lys Glu  
 260 265 270  
 Ile Lys Glu Ala Ile Lys Lys His Met Cys Gln Ser Met Ile Cys Thr  
 275 280 285  
 His

&lt;210&gt; 2268

&lt;211&gt; 166

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8516144-1-909-1747)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(166)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2268

Met Tyr Thr Thr Leu Leu Met Ala Arg Leu Cys Leu Cys Ala Asp Asn  
 1 5 10 15  
 Val Ile Pro His Ser Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala  
 20 25 30  
 Leu Ser Asp Thr Arg Val Asn Glu Xaa Val Ile Phe Ile Met Gly Gly  
 35 40 45  
 Leu Ile Leu Val Ile Pro Ser Ile Leu Ile Leu Gly Ser Tyr Ala Arg  
 50 55 60  
 Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser Lys Cys Ile Cys Lys  
 65 70 75 80  
 Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr  
 85 90 95  
 Gly Thr Val Ile Gly Leu Tyr Leu Cys Ser Ser Ala Asn Ser Ser Thr  
 100 105 110  
 Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met  
 115 120 125  
 Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala

130	135	140
Leu Ser Arg Val Ile His	Gln Lys Lys Thr Phe	Phe Ser Leu Xaa Xaa
145	150	155
Xaa His Leu Glu Leu Leu		160
	165	

&lt;210&gt; 2269

&lt;211&gt; 540

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8516144-24-10674-13726)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(540)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2269

Met Asp Leu Gly Asn Ser Gly Asn Asp Ser Val Val Thr Lys Phe Val	
1	5
Leu Leu Gly Leu Thr Glu Thr Ala Ala Leu Gln Pro Ile Leu Phe Val	
	20
Ile Phe Leu Leu Ala Tyr Val Thr Thr Ile Gly Gly Thr Leu Ser Ile	
	35
Leu Ala Ala Ile Leu Met Glu Thr Lys Leu His Ser Pro Met Tyr Phe	
	50
Phe Leu Gly Asn Leu Ser Leu Pro Asp Val Gly Cys Val Ser Val Thr	
65	70
Val Pro Ala Met Leu Ser His Phe Ile Ser Asn Asp Arg Ser Ile Pro	
	85
Tyr Lys Ala Cys Leu Ser Glu Leu Phe Phe Phe His Leu Leu Ala Gly	
	100
Ala Asp Cys Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Leu Ala	
	115
Ile Cys Gln Ser Leu Thr Tyr Ser Ser Arg Met Ser Trp Gly Ile Gln	
	130
Gln Ala Leu Val Gly Met Ser Trp Val Phe Ser Phe Thr Asn Ala Leu	
145	150
Thr Gln Thr Val Ala Leu Ser Pro Leu Asn Phe Cys Gly Pro Asn Val	
	165
Ile Asn His Phe Tyr Cys Asp Leu Pro Gln Pro Phe Gln Leu Ser Cys	
	180
Ser Ser Val His Leu Asn Gly Gln Leu Leu Phe Val Ala Ala Ala Phe	
	195
Met Gly Val Ala Pro Leu Val Leu Ile Thr Val Ser Tyr Ala His Val	
	210
Ala Ala Ala Val Leu Arg Ile Arg Ser Ala Glu Gly Arg Lys Lys Ala	
225	230
Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Gly Ile Phe Tyr Gly	
	245
Thr Gly Val Phe Ser Tyr Thr Arg Leu Gly Ser Val Glu Ser Ser Asp	
	260
Lys Asp Lys Gly Ile Gly Ile Leu Asn Thr Val Ile Ser Pro Met Leu	
	275
Asn Pro Leu Ile Tyr Trp Thr Ser Leu Leu Asp Val Gly Cys Ile Ser	
	290
His Cys Ser Ser Asp Ala Gly Val Ser Pro Gly Pro Pro Val Gln Ser	
305	310
Pro Tyr Ala Ala Cys Ser Ser Gln Leu Phe Phe Pro His Leu Leu Ala	
	325
Gly Val Asp Cys His Leu Leu Ile Ala Met Ala Tyr Asp Arg Tyr Leu	
	340

```

Ala Ile Cys Gln Leu Leu Thr Asn Ser Thr Arg Met Ser Cys Glu Val
      355                      360                      365
Gln Gly Ala Leu Val Gly Ile Cys Cys Thr Val Ser Phe Ile Asn Ala
      370                      375                      380
Leu Thr His Thr Val Ala Val Ser Ala Leu Asp Phe Cys Gly Pro Asn
385                      390                      395                      400
Val Val Asn His Phe Tyr Cys Asp Leu Pro Pro Leu Phe Gln Leu Ser
      405                      410                      415
Cys Ser Ser Ile His Leu Asn Gly Gln Leu Leu Leu Val Gly Ala Thr
      420                      425                      430
Phe Ile Gly Val Ile Pro Met Ile Phe Ile Ser Val Ser Tyr Ala His
      435                      440                      445
Val Thr Ala Ala Ile Leu Gln Ile Arg Ser Ala Glu Gly Arg Lys Lys
      450                      455                      460
Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Xaa Ile Phe Tyr
465                      470                      475                      480
Gly Thr Gly Phe Phe Ser Tyr Met Cys Leu Gly Ser Val Ser Ala Ser
      485                      490                      495
Asp Lys Asp Lys Gly Ile Gly Ile Leu Asn Thr Ile Leu Ser Pro Met
      500                      505                      510
Leu Asn Pro Val Ile Tyr Ser Leu Gln Asn Pro Asp Val Gln Gly Thr
      515                      520                      525
Leu Lys Arg Val Leu Thr Gly Lys Arg Pro Pro Ala
      530                      535                      540

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<210> 2270  
 <211> 106  
 <212> PRT  
 <213> Homo sapien (8518017-12-460-1010)

<220>  
 <221> VARIANT  
 <222> (1)...(106)  
 <223> Xaa = Any Amino Acid

```

<400> 2270
Gln Leu Leu Ile Leu Ala Cys Ser Glu Ser Ser Leu Asn Ser Leu Tyr
 1      5      10      15
Ser Phe Ile His Ser Phe Phe Cys Ser Phe Leu Pro Asn Ser Gly Tyr
      20      25      30
Leu Val Ser Gln Thr Asp Leu Val Pro Asp Leu Arg Glu Phe Arg Ile
      35      40      45
Xaa Ser Arg Arg His Ile Arg Asn Trp Asn Val Met Gly Ala Met Ile
      50      55      60
Leu Asn Val Cys Glu Ala Thr Gly Asn Gly Val Ala Leu Pro Ile Ser
65      70      75      80
Lys Ala Ala Thr Pro Glu Ala Met Thr Gly Val Xaa Ser Glu His Asp
      85      90      95
Ile Ala Leu Leu Phe Trp Leu Leu Arg Leu
      100      105

```

<210> 2271  
 <211> 223  
 <212> PRT  
 <213> Homo sapien (8546599-5-2194-2867)

<220>  
 <221> VARIANT  
 <222> (1)...(223)  
 <223> Xaa = Any Amino Acid



&lt;400&gt; 2271

```

Val Arg His Pro Leu Arg Cys Gly Lys Xaa Glu Pro Ala Pro Leu Pro
1      5      10
Pro Leu Ala Leu Arg Asn Pro Ile Met Thr Ser Cys Phe Cys Gly Phe
20     25     30
Leu Val Leu Phe Phe Phe Phe Phe Leu Ser Pro Leu Asp Ala Gln
35     40     45
Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Gln Asp Ala Glu
50     55     60
Ile Pro Ser Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala Cys
65     70     75     80
Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Leu Pro Ala Ala Ile
85     90     95
Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile
100    105    110
Val Ser Ser Ile Leu Arg Val Ser Ser Ser Arg Gly Lys Tyr Lys Ala
115    120    125
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
130    135    140
Thr Gly Phe Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
145    150    155    160
Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Ile Thr Ser Met Leu
165    170    175
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Val Leu
180    185    190
Arg Gln Pro His Gly Ser Thr Val Gln Phe Gln Tyr Leu Leu Ile Cys
195    200    205
Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys
210    215    220

```

&lt;210&gt; 2272

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8546616-1-110163-110999)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(120)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2272

```

Val Cys Ile Asn Ile Ser Xaa His His Xaa His Met Tyr Phe Xaa Leu
1      5      10      15
Ser Tyr Gly Ser Phe Xaa Glu Leu Leu Val His Ser Ala Glu Leu Pro
20     25     30
Ser Arg Ile Trp Arg Leu Lys Ser Ser Xaa Ser Cys Lys Ile Leu Ser
35     40     45
Gly Tyr Ser Asn Glu Val Trp Phe His Cys Ile Phe Leu Cys Leu Leu
50     55     60
Ser Lys Arg Leu Lys Xaa Ala His Ser Asp Lys Cys Gly Gln Val Ser
65     70     75     80
Leu Pro Leu His Pro Ser Leu Cys Leu Leu Leu Ser Leu Gly Asn Trp
85     90     95
Cys Gly Lys Ser Leu Cys Pro Gly Met Ala Thr Leu Leu Val Ser Arg
100    105    110
Leu Ile Gln Ser Ser Leu Cys Ser
115    120

```

&lt;210&gt; 2273

&lt;211&gt; 260

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8547576-2-9950-11981)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(260)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2273

Val	Leu	Cys	Val	Ile	Phe	Cys	Lys	Xaa	Asn	His	His	Ile	Ser	Leu	Leu
1				5					10					15	
Ser	Phe	Phe	Glu	Tyr	Leu	Met	Thr	Xaa	Xaa	Lys	Lys	Tyr	Gly	Ser	Ile
			20					25					30		
Cys	Ser	Thr	Met	Leu	Val	Ser	Ile	Arg	Ile	Lys	Tyr	Leu	Glu	Val	Phe
		35					40					45			
Ala	Glu	Asn	Leu	Phe	Gly	Ala	Glu	Ile	Ile	Pro	Leu	Met	Trp	Met	
	50					55				60					
Val	His	Gly	Cys	Tyr	Val	Thr	Val	Cys	Asn	Tyr	Met	Thr	Ile	Val	Asn
65					70				75					80	
Gln	Tyr	Arg	Cys	Ser	His	Leu	Thr	Gly	Met	Ala	Trp	Thr	Glu	Ser	Phe
				85					90				95		
Ile	His	Gly	Thr	Val	Xaa	Ile	Leu	Ser	Pro	Val	Xaa	Leu	Pro	Phe	Tyr
			100				105					110			
Asp	Pro	Asn	Val	Ile	Ala	His	Phe	Met	Cys	Asp	Leu	Asn	Thr	Phe	Leu
		115					120					125			
Lys	Leu	Leu	Cys	Met	Gly	Thr	Thr	Asn	Thr	Ile	Gly	Phe	Phe	Val	Ala
	130					135					140				
Ala	Asn	Gly	Gly	Phe	Asn	Tyr	Leu	Leu	Asn	Ile	Ile	Phe	Leu	Met	Val
145					150				155					160	
Ser	Xaa	Val	Ala	Ile	Leu	Cys	Thr	Leu	Lys	Thr	His	Ser	Leu	Glu	Glu
				165					170					175	
Arg	Cys	Xaa	Ser	Leu	Ser	Thr	Cys	Ile	Ser	His	Thr	Thr	Met	Val	Ile
			180				185						190		
Leu	Phe	Phe	Glu	Phe	Cys	Ile	Ser	Val	Tyr	Leu	Cys	Pro	Val	Thr	Leu
		195					200					205			
Leu	Pro	Ile	Asn	Lys	Ala	Met	Ala	Val	Phe	His	Thr	Val	Ile	Asn	Pro
	210				215						220				
Met	Leu	Lys	Pro	Leu	Val	Tyr	Thr	Leu	Arg	Asn	Ala	Glu	Val	Lys	Ser
225					230				235					240	
Ala	Leu	Arg	Lys	Val	Trp	Val	Lys	Arg	Xaa	Pro	Glu	Glu	Arg	Asn	Asn
				245					250					255	
Leu	Asn	Ile	Arg												
			260												

&lt;210&gt; 2274

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8567470-5-1-1337)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(328)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2274

Tyr	Thr	Asp	Pro	Gln	Asn	Leu	Thr	Asp	Val	Phe	Ile	Phe	Leu	Leu	Leu
1				5					10					15	
Glu	Leu	Ser	Glu	Asp	Pro	Ala	Leu	Gln	Leu	Val	Val	Thr	Gly	Leu	Cys
			20					25					30		
Leu	Met	Cys	Leu	Val	Thr	Val	Leu	Trp	Asn	Leu	Leu	Ser	Ile	Leu	Ala
		35					40					45			
Val	Ser	Pro	Asp	Ser	His	Leu	His	Thr	Pro	Met	His	Phe	Phe	Leu	Cys

50	55	60
Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys		
65	70	75
Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly		
	85	90
Cys Leu Thr Gln Met Ser Leu Ser Ala Ile Phe Gly Gly Met Glu Glu		
	100	105
Asn Met Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys		
	115	120
His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe		
	130	135
Leu Val Leu Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ser Gln Leu		
145	150	155
Gln Asn Leu Ile Ala Leu Gln Ile Thr Cys Ser Lys Asp Val Glu Ile		
	165	170
Pro Asn Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys		
	180	185
Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe		
	195	200
Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val		
	210	215
Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Ser Tyr Lys Ala Phe		
225	230	235
Ala Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr		
	245	250
Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys		
	260	265
Arg Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn		
	275	280
Pro Leu Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Val Leu Trp		
	290	295
Gln Pro Cys Ser Arg Thr Ala Ala Gln Ser Pro Ser Gln Tyr Leu His		
305	310	315
Leu Phe His Ser Phe Cys Arg Met		
	325	

&lt;210&gt; 2275

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8567878-9-2833-5012)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(310)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2275

Met Ala Lys Thr Asn Asn Ser Glu Val Thr Glu Phe Ile Leu Leu Gly		
1	5	10
Leu Thr Asp Asn Pro Glu Leu Gln Ala Leu Phe Trp Gly Ile Phe Leu		
	20	25
Val Ile Asn Leu Ser Ser Val Met Gly Ser Leu Gly Leu Ile Met Leu		
	35	40
Ile His Ile Ser Pro Gln Leu His Thr Ala Met Tyr Phe Phe Leu Ser		
	50	55
His Val Ala Phe Val Tyr Phe Cys Tyr Thr Ser Ser Ile Thr Pro Asn		
65	70	75
Ser Leu Val Asn Leu Leu Gln Glu Thr Lys Arg Ile Ser Leu Pro Thr		
	85	90
Cys Ala Ser Gln Leu His Cys Phe Ile Met Phe Val Val Cys Asp Met		
	100	105
		110

```

Tyr Val Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
    115                      120                      125
Pro Leu Leu Tyr Ser Ile Ile Met Asn Arg Arg Val Cys Ile Gln Met
    130                      135                      140
Val Val Ser Thr Tyr Leu Tyr Gly Phe Ser Val Arg Leu Leu Gln Ala
    145                      150                      155                      160
Ile Leu Thr Phe His Leu Ser Phe Xaa Asp Ser Asn Ile Ile Asn Asn
    165                      170                      175
Ser Tyr Cys Asp Asp Val Pro Leu Ala Cys Leu Pro Tyr His Lys Asn
    180                      185                      190
His Tyr Lys Asp Val Lys Glu Leu Ile Leu Phe Thr Leu Ala Gly Phe
    195                      200                      205
Asn Thr Leu Phe Ser Leu Leu Ile Ile Leu Ile Ser Tyr Ile Ser Val
    210                      215                      220
Leu Ser Ala Ile Leu Arg Ile Asn Ser Ala Glu Ser Arg Gln Lys Ala
    225                      230                      235                      240
Phe Ser Thr Cys Asp Ser His Leu Thr Ser Ile Ile Ile Phe Tyr Gly
    245                      250                      255
Ile Ile Thr Phe Met Tyr Met Gln Xaa Lys Thr Asn Asn Ser Leu Asp
    260                      265                      270
Thr Asp Lys Ile Ala Ser Val Phe Cys Ile Val Lys Ile Pro Ser Ile
    275                      280                      285
Tyr Ser Leu Arg Asn His Glu Val Lys Asp Ala Leu Lys Met Ile Met
    290                      295                      300
Glu Asn Leu Cys Leu Thr
    305                      310

```

&lt;210&gt; 2276

&lt;211&gt; 358

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8567902-2-5416-6914)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(358)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2276

```

Val Ser Met Ser Phe Leu Ile Arg Ser Asp Ser Thr Leu His Thr Pro
    1           5           10           15
Met Cys Leu Phe Leu Ser His Leu Ser Phe Val Asp Leu Tyr Tyr Ala
    20           25           30
Thr Asn Ala Thr Pro Pro Met Leu Val Asn Phe Val Phe Ser Lys Arg
    35           40           45
Lys Thr Val Ser Phe Ile Gly Cys Phe Ile Gln Phe His Leu Phe Ile
    50           55           60
Ala Leu Val Ile Thr Asp Tyr His Met Leu Thr Val Met Val Tyr Asp
    65           70           75           80
His Tyr Met Ala Ile Cys Lys Pro Leu Leu Tyr Gly Ser Lys Met Ser
    85           90           95
Arg Cys Val Cys Leu Cys Leu Thr Ala Ala Pro Tyr Ile Tyr Gly Ser
    100          105          110
Ala Asn Gly Leu Val Gln Val Ile Leu Met Leu Cys Leu Phe Phe Cys
    115          120          125
Glu Pro His Glu Ile Asn His Phe Phe Phe Phe Gly Glu Asn Ala Leu
    130          135          140
Tyr Ala His Leu Ile Pro Leu Xaa Ile Phe Glu Trp Thr Val Gly Glu
    145          150          155          160
Glu Gly Arg Asn Asn Ile Asn Gly Glu Asn Thr Thr Gln Lys Val Tyr
    165          170          175
Thr Met Gly Glu Arg Asn Leu Leu Ile Gln Val Ser Ile Phe Leu Leu

```

```

      180      185      190
Trp His Ile Arg Ser Xaa Leu Phe Ser Gln Tyr Glu Ala Ser Pro Arg
      195      200      205
Ala Asp Ser Asp Val Lys Leu Glu Ile Asn His Phe Tyr Tyr Ala Glu
      210      215      220
Pro Pro Leu Leu Val Leu Ala Cys Leu Asp Thr Tyr Val Lys Glu Thr
225      230      235      240
Ala Met Phe Met Val Ala Gly Ser Asn Leu Ile Cys Pro Leu Thr Ile
      245      250      255
Ile Phe Ile Ser Tyr Thr Phe Ile Phe Thr Asp Ile Leu His Ile Cys
      260      265      270
Thr Ala Glu Gly Arg Tyr Asn Ala Phe Ser Thr Cys Gly Ser Leu Val
      275      280      285
Thr Ala Val Thr Val Phe Gln Gly Thr Leu Phe His Met Cys Leu Arg
      290      295      300
Pro Pro Ser Glu Ala Ser Val Glu Gln Gly Lys Ile Val Ala Ala Phe
305      310      315      320
Tyr Ile Phe Val Ser Pro Thr Leu Asn Pro Leu Ile Tyr Arg Leu Arg
      325      330      335
Asn Lys Asn Val Lys Arg Thr Ile Arg Glu Val Ile Gln Lys Lys Leu
      340      345      350
Phe Ala Lys Xaa Gly Arg
      355

```

&lt;210&gt; 2277

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8567902-4-4497-6890)

&lt;400&gt; 2277

```

Met Ser Asn Thr Asn Gly Ser Ala Ile Thr Glu Phe Ile Leu Leu Gly
 1      5      10      15
Leu Thr Asp Cys Pro Glu Leu Gln Ser Leu Leu Phe Val Leu Phe Leu
      20      25      30
Val Val Tyr Leu Val Thr Leu Leu Gly Asn Leu Gly Met Ile Met Leu
      35      40      45
Met Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
50      55      60
Asn Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Asn Ala Thr Pro Gln
65      70      75      80
Met Ser Thr Asn Ile Val Ser Glu Lys Thr Ile Ser Phe Ala Gly Cys
      85      90      95
Phe Thr Gln Cys Tyr Ile Phe Ile Ala Leu Leu Leu Thr Glu Phe Tyr
      100      105      110
Met Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr Asp Pro
      115      120      125
Leu Arg Tyr Ser Val Lys Thr Ser Arg Arg Val Cys Ile Cys Leu Ala
      130      135      140
Thr Phe Pro Tyr Val Tyr Gly Phe Ser Asp Gly Leu Phe Gln Ala Ile
145      150      155      160
Leu Thr Phe Arg Leu Thr Phe Cys Arg Ser Ser Val Ile Asn His Phe
      165      170      175
Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ser Cys Ser Asp Thr Tyr
      180      185      190
Val Lys Glu His Ala Met Phe Ile Ser Ala Gly Phe Asn Leu Ser Ser
      195      200      205
Ser Leu Thr Ile Val Leu Val Ser Tyr Ala Phe Ile Leu Ala Ala Ile
      210      215      220
Leu Arg Ile Lys Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr Cys
225      230      235      240
Gly Ser His Met Met Ala Val Thr Leu Phe Tyr Gly Thr Leu Phe Cys

```

245 250 255  
 Met Tyr Ile Arg Pro Pro Thr Asp Lys Thr Val Glu Glu Ser Lys Ile  
 260 265 270  
 Ile Ala Val Phe Tyr Thr Phe Val Ser Pro Val Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Gln Ala Leu Lys Asn Val Leu  
 290 295 300  
 Arg  
 305

&lt;210&gt; 2278

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8567954-21-10804-13693)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(319)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2278

Met Gly Val His Asn Leu Phe Thr Val Thr Gln Phe Ile Leu Ile Gly  
 1 5 10 15  
 Leu Ser Tyr Phe Ser Asn Glu His Tyr Leu Leu Phe Val Ala Leu Ala  
 20 25 30  
 Ile Ile Cys Gln Val Phe Leu Val Arg Ser Gly Asp Ile Leu Leu Ala  
 35 40 45  
 Ile Gly Thr Val Ile Lys Leu His Thr Thr Met Tyr Tyr Phe Leu Ala  
 50 55 60  
 Asn Val Ser Ile Leu Asp Ile Leu Cys Ser Ser Ala Thr Ile Pro Lys  
 65 70 75 80  
 Met Pro Lys Ile Leu Xaa Thr Glu Asp His Ser Ile Ser Phe Val Arg  
 85 90 95  
 Xaa Ala Leu Gln Pro Tyr Phe Leu Val Ala Trp Ala Gly Lys Lys Cys  
 100 105 110  
 Phe Leu Thr Val Thr Ala Tyr Asp Trp Cys Val Val Thr Cys Phe Ser  
 115 120 125  
 Leu Cys Tyr Ile Leu Ile Met Asn Lys Leu Val Ser Val Gln Leu Val  
 130 135 140  
 Tyr Gly Thr Xaa Ala Ala Gly Phe Leu Asn Phe Leu Leu Leu His Val  
 145 150 155 160  
 Val Ser Thr Leu Cys Leu Ser Phe Cys Lys Pro Asp Arg Val Asn Gln  
 165 170 175  
 Tyr Tyr Cys Asp Ile Ser Pro Met Gly Ala Leu Leu Cys Gln Ser Met  
 180 185 190  
 His Leu Ala Asn Met Leu Val Leu Val Glu Ser Val Ile Leu Gly Ile  
 195 200 205  
 Ser Ala Phe Leu Ala Ala Phe Asn Phe Tyr Ile Tyr Ile Ile Ser Thr  
 210 215 220  
 Ile Leu Lys Ile Gln Cys Val Glu Trp Ser Ala Lys Cys Phe Ser Thr  
 225 230 235 240  
 Cys Thr Ser His Leu Leu Thr Val Cys Leu Phe Tyr Gly Ile Leu Thr  
 245 250 255  
 Phe Thr Tyr Ile Tyr Ser Phe Ser Ser His Thr His Met Ser Lys Ala  
 260 265 270  
 Ser Pro Asp Leu Ala Thr Asp Arg Leu Ile Ser Met Leu Tyr Arg Val  
 275 280 285  
 Ile Thr Leu Met Phe Asn Phe Ile Thr Asp Asn Leu Arg Asn Thr Glu  
 290 295 300  
 Val Lys Gly Ala Ser Glu Arg Phe Tyr Val Ile Glu His Val Tyr  
 305 310 315

<210> 2279  
 <211> 307  
 <212> PRT  
 <213> Homo sapien (8567954-21-4824-8043)

<400> 2279

```

Met Asn His Ser Val Val Thr Glu Phe Ile Ile Leu Gly Leu Thr Lys
 1          5          10          15
Lys Pro Glu Leu Gln Gly Ile Ile Phe Leu Phe Phe Leu Ile Val Tyr
          20          25          30
Leu Val Ala Phe Leu Gly Asn Met Leu Ile Ile Ile Ala Lys Ile Tyr
          35          40          45
Asn Asn Thr Leu His Thr Pro Met Tyr Val Phe Leu Leu Thr Leu Ala
 50          55          60
Val Val Asp Ile Ile Cys Thr Thr Ser Ile Ile Pro Lys Met Leu Gly
 65          70          75          80
Thr Met Leu Thr Ser Glu Asn Thr Ile Ser Tyr Ala Gly Cys Met Ser
          85          90          95
Gln Leu Phe Leu Phe Thr Trp Ser Leu Gly Ala Glu Met Val Leu Phe
          100          105          110
Thr Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
          115          120          125
Tyr Ser Thr Val Met Asn His His Met Cys Val Ala Leu Leu Ser Met
          130          135          140
Val Met Ala Ile Ala Val Thr Asn Ser Trp Val His Thr Ala Leu Ile
          145          150          155          160
Met Arg Leu Thr Phe Cys Gly Pro Asn Thr Ile Asp His Phe Phe Cys
          165          170          175
Glu Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Pro Val Arg Ile Asn
          180          185          190
Glu Val Met Val Tyr Val Ala Asp Ile Thr Leu Ala Ile Gly Asp Phe
          195          200          205
Ile Leu Thr Cys Ile Ser Tyr Gly Phe Ile Ile Val Ala Ile Leu Arg
          210          215          220
Ile Arg Thr Val Glu Gly Lys Arg Lys Ala Phe Ser Thr Cys Ser Ser
          225          230          235          240
His Leu Thr Val Val Thr Leu Tyr Tyr Ser Pro Val Ile Tyr Thr Tyr
          245          250          255
Ile Arg Pro Ala Ser Ser Tyr Thr Phe Glu Arg Asp Lys Val Val Ala
          260          265          270
Ala Leu Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro Met Val Tyr Ser
          275          280          285
Phe Gln Asn Arg Glu Met Gln Ala Gly Ile Arg Lys Val Phe Ala Phe
          290          295          300
Leu Lys His
305

```

<210> 2280  
 <211> 104  
 <212> PRT  
 <213> Homo sapien (8568141-22-12851-13662)

<220>

<221> VARIANT

<222> (1)...(104)

<223> Xaa = Any Amino Acid

<400> 2280

```

Leu Pro Pro Asn Ile Leu Cys Val Ile Ile Ser Tyr Ser Arg His Phe
 1          5          10          15

```

Ser Lys Leu Leu Lys Ile Pro Asn Ile Arg Thr Gln Ile Gln Lys Phe  
 20 25 30  
 Ser His Ile Ser Xaa Asn Leu Lys Lys Val Ser Val Leu Arg Leu Thr  
 35 40 45  
 Trp Thr Arg Tyr Pro Ser Xaa Met Leu Pro Xaa Tyr Pro Ala Pro Thr  
 50 55 60  
 Leu Thr Lys His Ile Pro Cys Gly Leu Val Thr Cys Leu Leu Gln Pro  
 65 70 75 80  
 Arg Met Ser Cys Trp Arg Ala Arg Asn Ala Pro Ser Thr Cys Leu Ala  
 85 90 95  
 Leu Thr Ala Lys His Ile Ser Ala  
 100

&lt;210&gt; 2281

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8568143-10-1394-2684)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(333)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2281

Met Gly Pro Lys Asn Leu Thr Arg Val Leu Glu Phe Phe Leu Leu His  
 1 5 10 15  
 Phe Leu Asp Asp Leu Glu Leu Gln Pro Phe Leu Ser Gly Cys Pro Xaa  
 20 25 30  
 Thr Met His Leu Val Thr Val Leu Ala Asn Leu Leu Thr Ser Phe Xaa  
 35 40 45  
 Leu Ser Ala Leu Pro His Leu His Asn Pro Met Asn Phe Asn Leu Ser  
 50 55 60  
 Leu Ala Asp Ile Gly Phe Thr Pro Ala Thr Ile Ser Lys Ile Thr Val  
 65 70 75 80  
 Asp Leu Gln Thr His Ser Arg Ile Ile Leu Tyr Met Ser Cys Leu Lys  
 85 90 95  
 Xaa Met Ser Phe Lys Ile Ile Phe Gly Cys Leu His Asn Leu Leu Ile  
 100 105 110  
 Thr Val Met Ala Tyr Asp Pro Phe Val Ala Thr Cys His Leu Leu Tyr  
 115 120 125  
 Tyr Thr Val Ile Arg Asn Pro His Leu Cys Gly Leu Leu Leu Leu Val  
 130 135 140  
 Ser Leu Phe Ser Leu Ser Phe Phe Phe Leu Ile Ser Leu Leu Glu Thr  
 145 150 155 160  
 Gln Leu Tyr Ser Leu Met Val Ser Gln Val Leu Cys Met Gln Asp Val  
 165 170 175  
 Asp Ile Pro His Phe Phe Cys Asp Pro Ser Gln Phe Leu His Leu Ser  
 180 185 190  
 Cys Ser Asp Thr Ala Thr Asn Asn Thr Leu Met His Phe Ile Gly Ala  
 195 200 205  
 Ile Phe Cys Gly Pro Phe Ser Gly Ile Leu Tyr Cys Tyr Thr Gln Ile  
 210 215 220  
 Met Phe Ser Ile Leu Ile Thr Leu Xaa Asn Val Gly Ser Ile Lys Gln  
 225 230 235 240  
 Thr Phe Ser Thr His Arg Ser His Leu Ser Val Val Cys Leu Phe Tyr  
 245 250 255  
 Gly Thr Gly Leu Gly Val Tyr Leu Ser Leu Ala Gly Ser Pro Ser Pro  
 260 265 270  
 Arg Thr Gly Val Val Ala Ser Met Val Tyr Thr Thr Val Thr Leu Met  
 275 280 285  
 Leu Asn Pro Val Ile His Ser Leu Arg Asn Arg Asp Ile Lys Asn Thr



290		295		300
Trp Trp Trp Leu Leu Ser	Ile Thr Ala Trp Tyr	Gln Tyr Leu Cys Tyr		
305	310	315	320	
Pro Leu Trp Ser Val Val Arg Lys Asn Ser	Lys Leu Lys			
	325	330		

<210> 2282  
 <211> 157  
 <212> PRT  
 <213> Homo sapien (8568247-23-1134-2556)

<220>  
 <221> VARIANT  
 <222> (1)...(157)  
 <223> Xaa = Any Amino Acid

<400> 2282	
Phe Leu Lys Met Arg Leu Lys Glu Leu Met Xaa Asp Arg Thr Ile Met	
1	15
Asp Tyr Trp Arg Glu Gly Arg His Ile Xaa Gly Met Phe Leu Ala Phe	
20	30
Pro Phe Gly Xaa Pro Ile Pro Lys Leu Phe Leu Trp Val Ser Ile Arg	
35	45
Asp Met Ala Val Thr Trp Met Asp His Arg His Glu Ser Cys Ser Pro	
50	60
Phe Leu Pro Lys Leu Gln Pro Phe Ser Ser Cys His Val Ser Glu Leu	
65	80
Cys Thr Cys Leu Asp Thr Phe Thr Lys Ser Tyr Ile Thr Xaa Ile Arg	
85	95
Gly Leu Lys Gly Phe Asn His Leu Cys Phe Leu Leu His Tyr Cys His	
100	110
Cys Ala Arg Ala Gln Val Ser Xaa Asn Ala Pro Trp Ser Leu Ala Gln	
115	125
Arg Cys Gln Pro Asn Met Leu Ile Arg Xaa Leu Phe Cys Leu Lys Leu	
130	140
Val Val His Asp Arg Leu Xaa His Val Leu Ser Leu Leu	
145	155

<210> 2283  
 <211> 91  
 <212> PRT  
 <213> Homo sapien (8568259-4-1499-2114)

<220>  
 <221> VARIANT  
 <222> (1)...(91)  
 <223> Xaa = Any Amino Acid

<400> 2283	
Gln Glu Ile Ser Ala Ala Arg Glu Arg Lys Ala Thr Lys Ile Leu Gly	
1	15
Ile Ile Leu Gly Ala Phe Ile Ile Cys Trp Leu Pro Phe Phe Val Val	
20	30
Ser Leu Val Leu Pro Ile Cys Arg Asp Ser Cys Trp Ile His Pro Ala	
35	45
Leu Phe Asp Phe Phe Thr Trp Leu Gly Tyr Leu Asn Ser Leu Ile Asn	
50	60
Pro Ile Ile Tyr Thr Val Phe Asn Glu Glu Phe Arg Gln Ala Phe Gln	
65	80
Lys Ile Val Pro Phe Arg Lys Ala Ser Xaa Ser	
85	90

<210> 2284  
 <211> 320  
 <212> PRT  
 <213> Homo sapien (8569904-8-5520-7957)

<400> 2284

```

Met Asp Ser Pro Ser Asn Ala Thr Val Pro Cys Gly Phe Leu Leu Gln
 1          5          10          15
Gly Phe Ser Glu Phe Pro His Leu Arg Pro Val Leu Phe Leu Leu
 20          25          30
Leu Gly Val His Leu Ala Thr Leu Gly Gly Asn Leu Leu Ile Leu Val
 35          40          45
Ala Val Ala Ser Met Pro Ser Arg Gln Pro Met Leu Leu Phe Leu Cys
 50          55          60
Gln Leu Ser Ala Ile Glu Leu Cys Tyr Thr Leu Val Val Val Pro Arg
 65          70          75          80
Ser Leu Val Asp Leu Ser Ser Arg Gly His Arg Arg Gly Ser Pro Ile
 85          90          95
Ser Phe Leu Ser Cys Ala Phe Gln Met Gln Met Phe Val Ala Leu Gly
 100         105         110
Gly Ala Glu Cys Phe Leu Leu Ala Ala Met Ala Asn Asp Arg Tyr Val
 115         120         125
Ala Ile Cys His Pro Leu Arg Tyr Arg Ala Val Val Thr Pro Gly Leu
 130         135         140
Cys Ala Arg Leu Val Ser Gly Cys Cys Leu Arg Gly Leu Ala Val Ser
 145         150         155         160
Leu Gly Leu Thr Val Leu Ile Phe His Leu Pro Phe Cys Gly Ser Arg
 165         170         175
Leu Leu Leu His Phe Phe Cys Asp Ile Thr Ala Leu Leu His Leu Ala
 180         185         190
Cys Thr Arg Thr Thr Pro His Glu Leu Pro Leu Leu Gly Ala Cys Leu
 195         200         205
Val Leu Leu Leu Leu Pro Ser Val Leu Ile Leu Ala Ser Tyr Gly Ala
 210         215         220
Ile Ala Ala Ala Leu Val Arg Leu Arg Cys Pro Lys Gly Arg Gly Lys
 225         230         235         240
Ala Ala Ser Thr Cys Ala Leu His Leu Ala Val Thr Phe Leu His Tyr
 245         250         255
Gly Cys Ala Thr Phe Met Tyr Val Arg Pro Arg Ala Ser Tyr Ser Pro
 260         265         270
Arg Leu Asp Arg Thr Leu Ala Leu Val Tyr Thr Asn Val Thr Pro Leu
 275         280         285
Leu Cys Pro Leu Ile Tyr Ser Leu Arg Asn Arg Glu Ile Thr Ala Ala
 290         295         300
Leu Ser Arg Val Leu Gly Arg Arg Arg Pro Gly Gln Ala Pro Gly Gly
 305         310         315         320

```

<210> 2285  
 <211> 130  
 <212> PRT  
 <213> Homo sapien (8569934-12-21632-22280)

<220>

<221> VARIANT

<222> (1)...(130)

<223> Xaa = Any Amino Acid

<400> 2285

```

Lys Val Cys Leu Phe Gln Ala Leu Met Cys Trp Leu Ser Leu Xaa Gln
 1          5          10          15

```

Gln Pro Phe Thr Gln Ser Ala Ser Thr Leu Leu Leu Pro Leu Cys Ile  
                   20                  25                  30  
 Pro Arg Gln Ala Pro Gln Cys Pro Gly Asp Leu Arg Thr Ala Leu Arg  
                   35                  40                  45  
 Ala Val Met Cys Thr Arg Gly Cys Val Phe Xaa Ala Trp Glu Trp Val  
                   50                  55                  60  
 Ala Ser Tyr Ile His Leu Ile Pro Leu Cys Ile Pro Val Arg Ser Ala  
   65                  70                  75                  80  
 Tyr Asn Leu Gly Arg Val Leu Asn Gly Val Lys Trp Cys Ser Xaa Gly  
                   85                  90                  95  
 Gln Gln Val Glu Phe Cys Ser Cys Lys Ala Lys Leu Met Leu Leu Ala  
                   100                  105                  110  
 Ser Val Asp Val Val Leu Val Ser Thr Gln Pro Xaa Asn Pro Arg Pro  
                   115                  120                  125  
 His Glu  
           130

&lt;210&gt; 2286

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8569993-13-6018-8083)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(318)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2286

Ile Ser Thr Met Ser Val Phe Lys Ser Ser Ala Xaa Asn Pro Arg Phe  
   1                  5                  10                  15  
 Leu Gln Thr Gly Leu Ser Gly Leu Glu Ser Arg Tyr Asp Leu Ile Ser  
                   20                  25                  30  
 Leu Pro Ile Phe Leu Val Tyr Ala Thr Ser Ile Ala Gly Asn Ile Ser  
                   35                  40                  45  
 Ile Leu Phe Ile Ile Arg Thr Glu Ser Ser Leu His Gln Pro Met Tyr  
   50                  55                  60  
 Tyr Phe Leu Ser Met Leu Ala Phe Thr Asp Leu Gly Leu Ser Asn Thr  
   65                  70                  75                  80  
 Thr Leu Pro Thr Met Phe Ser Val Phe Trp Phe His Ala Arg Glu Ile  
                   85                  90                  95  
 Ser Phe Asn Ala Cys Leu Val Gln Met Tyr Phe Ile His Val Phe Ser  
                   100                  105                  110  
 Ile Ile Glu Ser Ala Val Leu Leu Ala Met Ala Phe Asp Cys Phe Ile  
                   115                  120                  125  
 Ala Ile Xaa Glu Pro Leu Arg Tyr Ala Ala Ile Leu Thr Asn Asp Val  
   130                  135                  140  
 Ile Ile Gly Ile Gly Leu Ala Ile Ala Gly Arg Ala Leu Ala Leu Val  
  145                  150                  155                  160  
 Phe Pro Ala Ser Phe Leu Leu Lys Arg Leu Gln Tyr His Asp Val Asn  
                   165                  170                  175  
 Ile Leu Ser Tyr Leu Phe Cys Leu His Gln Asp Leu Ile Lys Thr Thr  
                   180                  185                  190  
 Val Ser Asn Cys Arg Val Ser Ser Ile Tyr Gly Leu Met Val Val Ile  
                   195                  200                  205  
 Cys Ser Met Gly Leu Asp Ser Val Leu Leu Leu Leu Ser Tyr Val Leu  
   210                  215                  220  
 Ile Leu Gly Thr Ala Leu Ser Ile Ala Ser Lys Ala Glu Arg Val Arg  
  225                  230                  235                  240  
 Ala Leu Asn Thr Cys Ile Ser His Ile Cys Ala Val Leu Thr Phe Tyr  
                   245                  250                  255  
 Thr Pro Met Ile Gly Leu Ser Met Ile His Arg Tyr Gly Gln Asn Ala

	260		265		270										
Pro	His	Ile	Val	His	Val	Leu	Met	Ala	Asn	Val	Tyr	Leu	Met	Gly	Pro
	275						280					285			
Pro	Leu	Met	Asn	Pro	Val	Phe	Tyr	Ser	Val	Lys	Thr	Arg	Gln	Ile	Arg
	290					295					300				
Asp	Arg	Ile	Phe	Gln	Ile	Lys	Phe	Arg	Asn	Met	Lys	Cys	Arg		
305					310					315					

&lt;210&gt; 2287

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8570235-22-3034-4808)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(235)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2287

Met	Leu	Phe	Ile	Ser	Gln	Trp	Gly	Glu	Arg	Xaa	Arg	Val	Arg	Arg	Asn
1				5					10					15	
Val	Gln	Leu	Met	Thr	Ala	Phe	Ile	Leu	Met	Asp	Leu	Pro	His	Val	Pro
		20						25					30		
Ala	Leu	Asp	Ala	Pro	Leu	Phe	Gly	Val	Phe	Leu	Val	Val	Tyr	Val	Leu
	35						40					45			
Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Leu	Leu	Val	Ile	Arg	Val	Tyr	Ser
	50				55						60				
His	Leu	His	Thr	Pro	Lys	Tyr	Tyr	Phe	Leu	Thr	Asn	Leu	Ser	Phe	Ile
65					70					75				80	
Asp	Leu	Trp	Phe	Phe	Thr	Val	Met	Val	Pro	Lys	Met	Pro	Arg	Thr	Leu
			85						90					95	
Leu	Ser	Leu	Cys	Gly	Lys	Ala	Val	Ser	Phe	His	Ser	Cys	Met	Thr	Gln
		100						105					110		
Leu	Tyr	Phe	Phe	Tyr	Phe	Leu	Gly	Ser	Thr	Glu	Cys	Leu	Leu	Tyr	Thr
	115						120					125			
Val	Met	Ser	Tyr	Asp	Arg	Tyr	Arg	Gly	Asn	Thr	Gln	His	Phe	Pro	Gly
	130					135					140				
Ser	Glu	Asn	Leu	Pro	Thr	Lys	Xaa	Ala	Lys	Cys	Xaa	Trp	Pro	Gly	Gly
145					150					155					160
His	Thr	Gly	Xaa	Pro	Leu	Ile	Ile	Leu	Ala	Asp	Leu	Ser	Gly	Xaa	Leu
			165						170					175	
Arg	Val	Asp	Ser	Ser	Xaa	Trp	Ala	Ile	Gln	Asn	Xaa	Xaa	Tyr	Asn	Leu
		180					185						190		
Val	Ile	Gln	Val	Lys	Phe	Ile	Thr	Cys	Ile	Gly	Leu	Ser	Ile	Lys	His
	195						200					205			
Tyr	Ser	Lys	Gln	Leu	Ala	Gln	Leu	Xaa	Phe	Phe	His	Arg	Leu	Ser	Lys
	210					215					220				
Thr	Phe	Leu	Asn	Ser	Gln	Leu	Asp	Phe	Tyr	Leu					
225					230					235					

&lt;210&gt; 2288

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8570522-1-103735-108559)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(325)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2288

```

Met Lys Ile Asn Gln Thr Ile Leu Lys Glu Phe Ile Leu Val Gly Phe
 1      5      10      15
Ser Val Tyr Pro His Val Gln Thr Phe Leu Phe Val Val Phe Phe Cys
      20      25      30
Leu Tyr Leu Leu Thr Leu Ala Gly Asn Leu Thr Ile Met Gly Leu Thr
      35      40      45
Xaa Val Asp Arg Ser Leu His Thr Pro Met Tyr Leu Phe Leu Ser Ala
      50      55      60
Leu Ser Phe Ser Glu Thr Cys Tyr Thr Leu Thr Ile Val Pro Lys Met
      65      70      75      80
Leu Glu Asp Leu Leu Ala Lys Asp Arg Ser Ile Ser Val Thr Gly Cys
      85      90      95
Ser Leu Gln Met Cys Phe Phe Leu Gly Leu Gly Gly Thr Asn Cys Ile
      100      105      110
Ile Leu Thr Leu Met Gly Tyr Asp Arg Phe Leu Ala Ile Cys Asn Pro
      115      120      125
Leu Arg Tyr Pro Leu Leu Met Thr Asn Ile Val Cys Gly Gln Leu Val
      130      135      140
Ala Ser Ala Cys Thr Ala Gly Phe Phe Ile Ser Leu Thr Glu Thr Ala
      145      150      155      160
Leu Ile Phe Arg Asp Ser Phe Cys Arg Pro Asn Leu Val Lys His Phe
      165      170      175
Phe Cys His Met Leu Ala Val Ile Arg Leu Ser Cys Ile Asp Ser Asn
      180      185      190
His Thr Glu Phe Ile Ile Thr Leu Ile Ser Val Ser Gly Leu Leu Gly
      195      200      205
Thr Leu Leu Leu Ile Ile Leu Thr Asp Val Phe Ile Ile Ser Thr Val
      210      215      220
Leu Arg Ile Pro Ser Ala Glu Gly Lys Gln Lys Ala Phe Thr Thr Cys
      225      230      235      240
Ala Ser His Leu Thr Val Val Ile Ile His Phe Gly Phe Ala Ser Ile
      245      250      255
Val Tyr Leu Lys Pro Glu Ala Ser Gly Asp Asp Thr Leu Ile Ala Val
      260      265      270
Pro Tyr Thr Val Ile Thr Pro Phe Leu Ser Pro Ile Ile Phe Ser Leu
      275      280      285
Arg Asn Lys Asp Met Lys Asn Ala Phe Arg Arg Met Met Gly Asn Thr
      290      295      300
Val Ala Leu Lys Lys Xaa Ile Leu Gly Cys Cys Cys Leu Phe Glu Glu
      305      310      315      320
Gly Leu Asn Val Pro
      325

```

&lt;210&gt; 2289

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8570523-1-20584-21124)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(151)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2289

```

Cys Val Ser Xaa Gln Arg Ser Pro His Phe Leu Cys Ser Gly Asp Ser
 1      5      10      15
Val Phe Cys Leu Val His Ser Val Gly Cys Cys Thr Leu Leu Leu Ser
      20      25      30
Gln Ser Leu Arg Leu Leu Ser Val Phe Leu Leu Ser Ser Cys Ala Ala
      35      40      45
Ser Trp Lys Lys Val His Ser Met Asn Leu Tyr Thr Pro Phe Cys Leu

```

50		55		60
Ser Lys Trp Xaa Asn His Val Asn Asn Ala Phe Asn Leu Pro Ser Trp				
65		70		75
Lys Lys Ser Lys Ser Val Val Thr Met Phe Xaa Gly Pro Ala Met Ile				80
	85		90	95
Thr Tyr Leu Arg Ser Asp Ser Xaa Tyr Asn Pro Thr Val Gly Lys Gln				
	100		105	110
Leu Val Leu Phe Tyr Ser Ile Val Ser Ala Phe Ile Lys Pro Ile Ile				
	115		120	125
Ser Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Ser Trp Lys Val Leu				
	130		135	140
Arg Val Lys Gly Thr Ala Gln				
145		150		

<210> 2290  
 <211> 96  
 <212> PRT  
 <213> Homo sapien (8570526-1-82280-82723)

<220>  
 <221> VARIANT  
 <222> (1)...(96)  
 <223> Xaa = Any Amino Acid

<400> 2290
Ile Val Val Asp Tyr Leu Ile Ile Lys Ser Ser Ile Phe Pro Pro Ala
1 5 10 15
Asn Ser Asn Leu Phe Lys Leu Ile Arg Lys Ser Ile Pro Ile Leu Ala
20 25 30
Cys Xaa Arg Val Met Met Asp Leu Gly Xaa Thr Gln Asn Val Ser Thr
35 40 45
Ser Lys Xaa Gly Cys Val Asp Lys Glu Tyr Asn Cys Phe Ile Pro Phe
50 55 60
Leu Ile Ala Trp His Leu Xaa His Arg Glu Xaa Arg Ile Ile Xaa Asp
65 70 75 80
Arg Ile Ser Ile Leu Val Xaa Lys Ala Leu Trp Met Lys Asn Lys Gly
85 90 95

<210> 2291  
 <211> 162  
 <212> PRT  
 <213> Homo sapien (8575931-7-5387-5879)

<220>  
 <221> VARIANT  
 <222> (1)...(162)  
 <223> Xaa = Any Amino Acid

<400> 2291
Leu Leu Ile Ile Pro Ala Ile Ala Thr Asp Thr Arg Leu Ser Val Leu
1 5 10 15
Val Arg Phe Phe Leu Ala Asn Leu Ala Phe Val Val Thr Cys Phe Thr
20 25 30
Ser Thr Thr Ile Pro Lys Met Leu Ala Cys Lys Glu Ile Pro Cys Val
35 40 45
Met Ser Gly Cys Lys Gly Ile Pro Tyr Ala Gly Cys Leu Thr Gln Met
50 55 60
Leu Phe Phe Ile Trp Leu Gly Ile His Ser Phe Leu Leu Thr Ala Met
65 70 75 80
Ala Asn Glu His Cys Val Ala Ile Cys His Ser Leu Asn Ser Ile Arg
85 90 95

Ser Val Thr Pro Xaa Leu Cys Gly Leu Leu Val Val Ala Ser Trp Thr  
 100 105 110  
 Phe Ala Phe Arg Asn Ala Leu Thr His Pro Val Leu Leu Thr Arg Leu  
 115 120 125  
 Ser Leu Cys Thr Tyr Glu Trp Val Ser His Val Phe Cys Asn Leu Ser  
 130 135 140  
 Gln Leu Leu Lys Leu Ala Cys Ser Asp Ala Thr Leu Asn Asn Val Thr  
 145 150 155 160  
 Val Gln

&lt;210&gt; 2292

&lt;211&gt; 264

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8648586-17-1126-4850)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(264)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2292

Ala Cys Val Thr Phe Leu Val Glu Val Thr Val Met Pro Phe Ser Thr  
 1 5 10 15  
 Val Arg Phe Val Lys Ser Cys Trp Tyr Phe Gly Asp Ser Ser Cys Lys  
 20 25 30  
 Phe Asn Thr Trp Phe Asp Thr Ser Phe Cys Phe Ala Ser Leu Phe His  
 35 40 45  
 Xaa Gly Cys Ile Ser Val Asp Arg Tyr Met Leu Val Ser Asp Leu Leu  
 50 55 60  
 Thr Tyr Pro Thr Lys Phe Thr Val Ser Val Leu Gly Ile Cys Met Val  
 65 70 75 80  
 Leu Cys Trp Phe Leu Phe Cys Pro Tyr Ser Phe Ser Ile Phe Asn Thr  
 85 90 95  
 Gly Ala Asn Glu Glu Gly Ile Glu Glu Leu Val Val Ala Leu Thr Cys  
 100 105 110  
 Val Gly Gly Cys Gln Ala Pro Leu Asn Gln Asn Trp Val Leu Leu Cys  
 115 120 125  
 Phe Leu Leu Phe Phe Ile Pro Asn Val Ala Met Val Phe Ile Tyr Ser  
 130 135 140  
 Lys Ile Phe Leu Val Ala Lys His Gln Ala Arg Lys Ile Glu Ser Thr  
 145 150 155 160  
 Ala Ser Gln Ala Gln Ser Ser Ser Glu Ser Tyr Lys Glu Arg Val Ala  
 165 170 175  
 Lys Arg Glu Arg Lys Ala Ala Lys Thr Leu Gly Ile Ala Met Ala Ala  
 180 185 190  
 Phe Leu Val Ser Trp Leu Pro Tyr Leu Val Asp Ala Val Ile Asp Ala  
 195 200 205  
 Tyr Met Asn Phe Ile Thr Pro Pro Tyr Val Tyr Glu Ile Leu Val Trp  
 210 215 220  
 Cys Val Tyr Tyr Asn Ser Ala Met Asn Pro Leu Ile Tyr Ala Phe Phe  
 225 230 235 240  
 Tyr Gln Trp Phe Gly Lys Ala Ile Lys Leu Ile Val Ser Gly Lys Val  
 245 250 255  
 Leu Arg Thr Asp Ser Ser Thr Thr  
 260

&lt;210&gt; 2293

&lt;211&gt; 126

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8648858-36-1-1206)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(126)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2293

```

Leu Cys Met Leu Cys Trp Gln Trp Pro Ala Val Met Thr Asp Arg Thr
 1          5          10          15
Ile Ala Thr Cys Lys Ser Arg His Phe Leu Phe Leu Ile Leu Val Leu
          20          25          30
Thr Cys Ser Leu Ile Pro Ala Xaa Ala Trp Phe Thr Tyr Phe Phe Phe
          35          40          45
Asn Ser Lys Ser Cys Val Val Leu Phe Gln His Ile His Phe Cys Leu
          50          55          60
Leu Xaa Ile Pro Ser Asn Phe Tyr Cys Leu Xaa Thr Thr Ala Tyr Leu
          65          70          75          80
Lys Xaa Leu Leu Asn Met Xaa Leu Lys His Xaa Ile Lys Xaa Thr Tyr
          85          90          95
Ile Val Phe Leu Ala Val Arg Ile Leu Xaa Ala Phe Leu Ile Leu Ile
          100          105          110
Cys Ile Met Asn Leu Gln Leu Arg Gln Cys Ala Thr His Phe
          115          120          125

```

&lt;210&gt; 2294

&lt;211&gt; 183

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (8649180-1-4193-6564)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(183)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2294

```

Val Ile Met His Lys Lys Glu Cys Xaa Lys Lys Thr His Asn Ile Val
 1          5          10          15
Phe Leu Leu Met Val Trp Glu Phe Phe Tyr Lys Phe Leu Val Phe Phe
          20          25          30
Phe Phe Ser Leu His Xaa Cys Val Ser Ser Ile Ile Met Ser Val Tyr
          35          40          45
Tyr Xaa Lys Ile Asn Ile Phe Ile Xaa Ile Glu Thr Lys Leu Leu Phe
          50          55          60
His Ile Ser Arg Xaa Asp Arg Met Ile Arg Cys Ser Phe Gln Lys Asn
          65          70          75          80
Tyr Leu Leu Asn His Asn Gly Leu Met Cys Arg Ser Lys Cys Gln Leu
          85          90          95
Val Tyr Gln Thr Val Ser Asn Ser Leu Asn Tyr Phe Tyr Ile Thr Pro
          100          105          110
Ile Xaa Leu Phe Gln Ile Val Val Tyr Lys Lys Tyr Lys Phe Leu His
          115          120          125
Cys Ile Val Leu Asp Val Pro Ala Tyr Ile Asn Ile Leu Gly Cys Ile
          130          135          140
Val Ser Phe Leu His Val Ile Cys Asn Val Xaa Leu Tyr Val Ile Asn
          145          150          155          160
Lys Thr Xaa Asn Xaa Tyr Lys Ser Arg Phe Ser Thr Cys Leu Ser His
          165          170          175
Ser Asp Ile Thr Asp Leu Phe
          180

```

&lt;210&gt; 2295



<211> 157  
 <212> PRT  
 <213> Homo sapien (902315-1-1-472)

<400> 2295  
 Ile Cys His Pro Leu Gln Tyr Thr Ile Leu Met Asn Pro Glu Leu Cys  
 1 5 10 15  
 Val Phe Met Thr Val Ala Ser Trp Thr Leu Gly Ser Leu Asp Gly Ile  
 20 25 30  
 Ile Val Leu Ala Ala Val Leu Ser Phe Ser Tyr Cys Ser Ser Leu Glu  
 35 40 45  
 Ile His His Phe Phe Cys Asp Val Ala Ala Leu Leu Pro Leu Ser Cys  
 50 55 60  
 Thr Glu Thr Ser Ala Phe Glu Arg Leu Leu Val Ile Cys Cys Val Val  
 65 70 75 80  
 Met Leu Ile Phe Pro Val Ser Val Ile Ile Leu Ser Tyr Ser His Val  
 85 90 95  
 Leu Arg Ala Val Ile His Met Gly Ser Gly Glu Ser Arg Arg Lys Ala  
 100 105 110  
 Phe Thr Thr Cys Ser Ser His Pro Ser Val Val Gly Leu Tyr Tyr Gly  
 115 120 125  
 Ala Ala Met Phe Met Tyr Met Arg Pro Ala Ser Lys His Thr Pro Asp  
 130 135 140  
 Gln Asp Lys Met Val Ser Ala Phe Tyr Thr Asn Pro Ala  
 145 150 155

<210> 2296  
 <211> 325  
 <212> PRT  
 <213> Mus musculus (M1 4726083-1-12568-18197 3361-4335)

<220>  
 <221> VARIANT  
 <222> (1)...(325)  
 <223> Xaa = Any Amino Acid

<400> 2296  
 Thr Met Trp Ser Asn Ile Ser Ala Ala Pro Phe Leu Leu Thr Gly Phe  
 1 5 10 15  
 Pro Gly Leu Glu Ala Ala His His Trp Ile Ser Ile Pro Phe Phe Ala  
 20 25 30  
 Ile Tyr Ile Ser Val Leu Leu Gly Asn Gly Thr Leu Leu Tyr Leu Ile  
 35 40 45  
 Lys Asp Asp His Asn Leu His Glu Pro Met Tyr Tyr Phe Leu Ala Met  
 50 55 60  
 Leu Ala Gly Thr Asp Leu Thr Val Thr Leu Thr Thr Met Pro Thr Val  
 65 70 75 80  
 Met Ala Val Leu Trp Val Asn His Arg Glu Ile Arg His Gly Ala Cys  
 85 90 95  
 Phe Leu Gln Ala Tyr Ile Ile His Ser Leu Ser Ile Val Glu Ser Gly  
 100 105 110  
 Val Leu Leu Ala Met Ser Tyr Asp Arg Phe Val Ala Ile Cys Thr Pro  
 115 120 125  
 Leu His Tyr Asn Ser Ile Leu Thr Asn Ser Arg Val Ile Ala Ile Gly  
 130 135 140  
 Leu Gly Val Val Leu Arg Gly Phe Leu Ser Leu Val Pro Pro Ile Leu  
 145 150 155 160  
 Pro Leu Phe Trp Phe Ser Tyr Cys Arg Ser His Val Leu Ser His Ala  
 165 170 175  
 Phe Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ala Asp Ile Thr  
 180 185 190

```

Phe Asn Arg Ile Tyr Pro Val Val Leu Val Ala Leu Thr Phe Phe Leu
    195                200                205
Asp Ala Leu Ile Ile Val Phe Ser Tyr Val Leu Ile Leu Lys Thr Val
    210                215                220
Met Gly Ile Ala Ser Gly Glu Glu Arg Ala Lys Ala Leu Asn Thr Cys
    225                230                235                240
Val Ser His Ile Ser Cys Val Leu Val Phe Tyr Ile Thr Val Ile Gly
                245                250                255
Leu Thr Phe Ile His Arg Phe Gly Lys Asn Ala Pro His Val Val His
                260                265                270
Ile Thr Met Ser Tyr Val Tyr Phe Leu Phe Pro Pro Phe Met Asn Pro
                275                280                285
Ile Ile Tyr Ser Ile Lys Thr Lys Gln Ile Gln Arg Ser Val Leu His
    290                295                300
Leu Leu Ser Val Xaa Asp Val Asn His Tyr Ile Ile Ile Gln Arg
    305                310                315                320
Ser Leu Gly Met Phe
                325

```

&lt;210&gt; 2297

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M2 4726083-1-175-4296 2476-1523)

&lt;400&gt; 2297

```

Leu Ser Ala Met Pro Ser Met Trp Leu Asn Ile Ser Ser Ser Pro Phe
  1                5                10                15
Leu Leu Thr Gly Phe Pro Gly Leu Glu Lys Ala His His Leu Ile Ser
    20                25                30
Leu Pro Leu Leu Met Ala Tyr Ile Ser Ile Leu Leu Gly Asn Gly Thr
    35                40                45
Leu Leu Phe Leu Ile Lys Asp Asp His Asn Leu His Glu Pro Met Tyr
    50                55                60
Tyr Phe Leu Gly Met Leu Ala Ala Thr Asp Leu Gly Val Thr Leu Thr
    65                70                75                80
Thr Met Pro Thr Val Leu Ser Val Leu Trp Leu Asn His Arg Glu Ile
                85                90                95
Gly His Gly Ala Cys Phe Ser Gln Ala Tyr Phe Ile His Thr Leu Ser
    100                105                110
Ile Val Glu Ser Gly Val Leu Leu Ala Met Ala Tyr Asp Arg Phe Ile
    115                120                125
Ala Ile Arg Asn Pro Leu Arg Tyr Thr Thr Ile Leu Thr Asp Thr Lys
    130                135                140
Val Ile Lys Ile Gly Ile Gly Leu Val Met Arg Ala Gly Leu Ser Ile
    145                150                155                160
Met Pro Ile Ile Ile Arg Leu His Trp Phe Pro Tyr Cys Arg Ser His
                165                170                175
Val Leu Ser His Ala Phe Cys Leu His Gln Asp Val Ile Lys Leu Ala
                180                185                190
Cys Ala Asp Ile Thr Phe Asn Arg Leu Tyr Pro Val Val Val Phe
    195                200                205
Ala Met Val Leu Leu Asp Phe Leu Ile Ile Phe Phe Ser Tyr Val Leu
    210                215                220
Ile Leu Lys Thr Val Met Gly Ile Ala Ser Thr Asp Glu Arg Ala Lys
    225                230                235                240
Ala Leu Asn Thr Cys Val Ser His Ile Cys Cys Ile Leu Val Phe Tyr
                245                250                255
Val Thr Val Val Gly Leu Thr Phe Ile His Arg Phe Gly Lys Asn Val
                260                265                270
Pro His Val Val His Ile Thr Met Ser Tyr Ile Tyr Phe Leu Phe Pro
    275                280                285

```

Pro Phe Met Asn Pro Val Ile Tyr Ser Ile Lys Thr Lys Gln Ile Gln  
 290 295 300  
 Ser Gly Leu Leu Arg Leu Phe Ser Leu Pro Cys Ser Lys Thr  
 305 310 315

<210> 2298

<211> 351

<212> PRT

<213> Mus musculus (M3 4726083-1-26023-28273 267-1318)

<220>

<221> VARIANT

<222> (1)...(351)

<223> Xaa = Any Amino Acid

<400> 2298

Leu Ser Pro Ser Leu Lys Pro Ser Cys Asn Cys Asp Pro Thr Met Trp  
 1 5 10 15  
 Pro Asn Ser Ser Asp Ala Pro Phe Leu Thr Gly Phe Leu Gly Leu  
 20 25 30  
 Glu Met Ile His His Trp Ile Ser Ile Pro Phe Phe Val Ile Tyr Phe  
 35 40 45  
 Ser Ile Ile Val Gly Asn Gly Thr Leu Leu Phe Ile Ile Trp Ser Asp  
 50 55 60  
 His Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ala Val Leu Ala Ser  
 65 70 75 80  
 Met Asp Leu Gly Met Thr Leu Thr Thr Met Pro Thr Val Leu Gly Val  
 85 90 95  
 Leu Val Leu Asn Gln Arg Glu Ile Val His Gly Ala Cys Phe Ile Gln  
 100 105 110  
 Ser Tyr Phe Ile His Ser Leu Ala Ile Val Glu Ser Gly Val Leu Leu  
 115 120 125  
 Ala Met Ser Tyr Asp Arg Phe Val Ala Ile Cys Thr Pro Leu His Tyr  
 130 135 140  
 Asn Ser Ile Leu Thr Asn Ser Arg Val Met Lys Met Ala Leu Gly Ala  
 145 150 155 160  
 Leu Leu Arg Gly Phe Val Ser Ile Val Pro Pro Ile Met Pro Leu Phe  
 165 170 175  
 Trp Phe Pro Tyr Cys His Ser His Val Leu Ser His Ala Phe Cys Leu  
 180 185 190  
 His Gln Asp Val Met Lys Leu Ala Cys Ala Asp Ile Thr Phe Asn Leu  
 195 200 205  
 Ile Tyr Pro Val Val Leu Val Ala Leu Thr Phe Phe Leu Asp Ala Leu  
 210 215 220  
 Ile Ile Ile Phe Ser Tyr Val Leu Ile Leu Lys Lys Val Met Gly Ile  
 225 230 235 240  
 Ala Ser Gly Glu Glu Arg Lys Lys Ser Leu Asn Thr Cys Val Ser His  
 245 250 255  
 Ile Ser Cys Val Leu Val Phe Tyr Ile Thr Val Ile Gly Leu Thr Phe  
 260 265 270  
 Ile His Arg Phe Gly Lys Asn Ala Pro His Val Val His Ile Thr Met  
 275 280 285  
 Ser Tyr Val Tyr Phe Leu Phe Pro Pro Phe Met Asn Pro Ile Ile Tyr  
 290 295 300  
 Ser Ile Lys Thr Lys Gln Ile Gln Arg Ser Ile Leu Arg Leu Leu Ser  
 305 310 315 320  
 Lys His Ser Arg Thr Xaa Ile Leu Ile Ile Asp Ser Gln Val Leu Tyr  
 325 330 335  
 Tyr Phe Trp Pro Phe Ile Arg Asn Lys Ser Cys Leu Lys Xaa Tyr  
 340 345 350

<210> 2299  
 <211> 339  
 <212> PRT  
 <213> Mus musculus (M4 4761596-1-24347-28106 1259-2275)

<220>  
 <221> VARIANT  
 <222> (1)...(339)  
 <223> Xaa = Any Amino Acid

<400> 2299  
 Ala Ser Ser Phe His Asn Asp Thr Asn Pro Gln Asp Val Trp Tyr Val  
 1 5 10 15  
 Leu Ile Gly Ile Pro Gly Leu Glu Asp Leu His Ser Trp Ile Ala Ile  
 20 25 30  
 Pro Ile Cys Ser Met Tyr Ile Val Ala Val Ile Gly Asn Val Leu Leu  
 35 40 45  
 Ile Phe Leu Ile Val Thr Glu Arg Ser Leu His Glu Pro Met Tyr Phe  
 50 55 60  
 Phe Leu Ser Met Leu Ala Leu Ala Asp Leu Leu Leu Ser Thr Ala Thr  
 65 70 75 80  
 Ala Pro Lys Met Leu Ala Ile Phe Trp Phe His Ser Arg Gly Ile Ser  
 85 90 95  
 Phe Gly Ser Cys Val Ser Gln Met Phe Phe Ile His Phe Ile Phe Val  
 100 105 110  
 Ala Glu Ser Ala Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala  
 115 120 125  
 Ile Cys Tyr Pro Leu Arg Tyr Thr Thr Ile Leu Thr Ser Ser Val Ile  
 130 135 140  
 Gly Lys Ile Gly Thr Ala Ala Val Val Arg Ser Phe Leu Ile Cys Phe  
 145 150 155 160  
 Pro Phe Ile Phe Leu Val Tyr Arg Leu Leu Tyr Cys Gly Lys His Ile  
 165 170 175  
 Ile Pro His Ser Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys  
 180 185 190  
 Asp Asn Ile Thr Val Asn Ile Ile Tyr Gly Leu Thr Met Ala Leu Leu  
 195 200 205  
 Ser Thr Gly Leu Asp Ile Leu Leu Ile Ile Ile Ser Tyr Thr Met Ile  
 210 215 220  
 Leu Arg Thr Val Phe Gln Ile Pro Ser Trp Ala Ala Arg Tyr Lys Ala  
 225 230 235 240  
 Leu Asn Thr Cys Gly Ser His Ile Cys Val Ile Leu Leu Phe Tyr Thr  
 245 250 255  
 Pro Ala Phe Phe Ser Phe Phe Ala His Arg Phe Gly Gly Lys Thr Val  
 260 265 270  
 Pro Arg His Ile His Ile Leu Val Ala Asn Leu Tyr Val Val Val Pro  
 275 280 285  
 Pro Met Leu Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Gln  
 290 295 300  
 Asp Arg Val Val Phe Leu Phe Ser Ser Val Ser Thr Cys Gln His Asp  
 305 310 315 320  
 Ser Arg Cys Xaa Arg Xaa His Ile Pro Lys Glu Asn Ser Phe Lys Cys  
 325 330 335  
 His Pro Cys

<210> 2300  
 <211> 344  
 <212> PRT  
 <213> Mus musculus (M5 4761596-1-36028-37764 563-1594)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(344)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2300

```

Ile Ser Glu Leu Thr Met Ile Lys Phe Asn Gly Ser Val Phe Met Pro
 1          5          10          15
Ser Val Leu Thr Leu Val Gly Ile Pro Gly Leu Glu Ser Val Gln Cys
          20          25          30
Trp Ile Gly Ile Pro Phe Cys Val Met Tyr Ile Ile Ala Met Ile Gly
          35          40          45
Asn Ser Leu Ile Leu Val Ile Ile Lys Ser Glu Lys Ser Leu His Ile
          50          55          60
Pro Met Tyr Ile Phe Leu Ala Ile Leu Ala Val Thr Asp Ile Ala Leu
65          70          75          80
Ser Thr Cys Ile Leu Pro Lys Met Leu Gly Ile Phe Trp Phe His Met
          85          90          95
Pro Gln Ile Ser Phe Asp Ala Cys Leu Leu Gln Met Glu Leu Ile His
          100          105          110
Ser Phe Gln Ala Thr Glu Ser Gly Ile Leu Leu Ala Met Ala Leu Asp
          115          120          125
Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg His Ala Thr Ile Phe Ser
130          135          140
Pro Gln Leu Thr Thr Cys Leu Gly Ala Gly Ala Leu Leu Arg Ala Phe
145          150          155          160
Ile Leu Val Ser Pro Ser Ile Leu Leu Ile Lys Cys Arg Leu Lys Tyr
          165          170          175
Phe Arg Thr Thr Ile Ile Ser His Ser Tyr Cys Glu His Met Ala Ile
          180          185          190
Val Lys Leu Ala Ala Gln Asp Ile Arg Ile Asn Lys Ile Cys Gly Leu
          195          200          205
Leu Val Ala Phe Ala Ile Leu Gly Phe Asp Ile Val Phe Ile Thr Phe
          210          215          220
Ser Tyr Val Arg Ile Phe Ile Thr Val Phe Gln Leu Pro Gln Lys Glu
225          230          235          240
Ala Arg Phe Lys Ala Phe Asn Thr Cys Ile Ala His Ile Cys Val Phe
          245          250          255
Leu Gln Phe Tyr Leu Leu Ala Phe Phe Ser Phe Phe Thr His Arg Phe
          260          265          270
Gly Ala His Ile Pro Pro Tyr Val His Ile Leu Leu Ser Asp Leu Tyr
          275          280          285
Leu Leu Val Pro Pro Phe Leu Asn Pro Ile Val Tyr Gly Val Lys Thr
          290          295          300
Lys Gln Ile Arg Asp Gln Val Leu Lys Met Leu Phe Ser Lys Lys Pro
305          310          315          320
Leu Val Ser Leu Ser Val Glu Lys Leu Cys Gly Phe Xaa Xaa Gln Leu
          325          330          335
Xaa Xaa Val Lys Leu Phe Ile Phe
          340

```

&lt;210&gt; 2301

&lt;211&gt; 347

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M6 4761596-1-45918-48570 619-1659)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(347)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2301

```

Thr Gly Arg Phe Ser Met Ile Lys Phe Asn Gly Ser Val Phe Met Pro
1          5          10          15
Ser Val Leu Thr Leu Val Gly Ile Pro Gly Leu Glu Ser Val Gln Cys
20          25          30
Trp Ile Gly Ile Pro Phe Cys Val Met Tyr Ile Ile Ala Met Ile Gly
35          40          45
Asn Ser Leu Ile Leu Val Ile Ile Lys Ser Glu Lys Ser Leu His Ile
50          55          60
Pro Met Tyr Ile Phe Leu Ala Ile Leu Ala Val Thr Asp Ile Ala Leu
65          70          75          80
Ser Thr Cys Ile Leu Pro Lys Met Leu Gly Ile Phe Trp Phe His Met
85          90          95
Pro Gln Ile Ser Phe Asp Ala Cys Leu Leu Gln Met Glu Leu Ile His
100         105         110
Ser Phe Gln Ala Thr Glu Ser Gly Ile Leu Leu Ala Met Ala Leu Asp
115         120         125
Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg His Ala Thr Ile Phe Ser
130         135         140
Pro Gln Leu Thr Thr Cys Leu Gly Ala Gly Ala Leu Leu Arg Ser Leu
145         150         155         160
Ile Thr Thr Phe Pro Leu Ile Leu Leu Ile Lys Phe Cys Leu Lys Tyr
165         170         175
Phe Arg Thr Thr Ile Ile Ser His Ser Tyr Cys Glu His Met Ala Ile
180         185         190
Val Lys Leu Ala Ala Gln Asp Ile Arg Ile Asn Lys Ile Cys Gly Leu
195         200         205
Leu Val Ala Phe Ala Ile Leu Gly Phe Asp Ile Val Phe Ile Thr Phe
210         215         220
Ser Tyr Val Arg Ile Phe Ile Thr Val Phe Gln Leu Pro Gln Lys Glu
225         230         235         240
Ala Arg Phe Lys Ala Phe Asn Thr Cys Ile Ala His Ile Cys Val Phe
245         250         255
Leu Gln Phe Tyr Leu Leu Ala Phe Phe Ser Phe Phe Thr His Arg Phe
260         265         270
Gly Ala His Ile Pro Pro Tyr Val His Ile Leu Leu Ser Asp Leu Tyr
275         280         285
Leu Leu Val Pro Pro Phe Leu Asn Pro Ile Val Tyr Gly Ile Lys Thr
290         295         300
Lys Gln Ile Arg Asp Gln Val Leu Lys Met Phe Phe Ser Lys Lys Pro
305         310         315         320
Leu Xaa Thr Ser Val Thr Arg Ser Val Glu Lys Leu Cys Gly Phe Xaa
325         330         335
Leu Glu Leu Glu Xaa Val Lys Pro Xaa Ile Phe
340         345

```

&lt;210&gt; 2302

&lt;211&gt; 351

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M7 5051393-1-104482-107691 2444-1393)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(351)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2302

```

Val Leu Cys Thr Thr Leu Ser Xaa Gln Ser His Ser Ser Asn Xaa Ile
1          5          10          15
Gln Met Thr Met Val Asn Gln Ser Thr Pro Val Gly Phe Leu Leu Leu
20          25          30

```

Gly Phe Ser Glu His Pro Gln Leu Glu Lys Val Leu Phe Val Val Val  
 35 40 45  
 Leu Cys Ser Tyr Leu Leu Thr Leu Leu Gly Asn Thr Leu Ile Leu Leu  
 50 55 60  
 Leu Ser Thr Leu Asp Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu  
 65 70 75 80  
 Ser Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Thr Cys Val Pro  
 85 90 95  
 Gln Met Leu Phe Asn Leu Trp Gly Pro Thr Lys Thr Ile Ser Phe Leu  
 100 105 110  
 Gly Cys Ser Val Gln Leu Phe Ile Phe Met Leu Leu Gly Thr Thr Glu  
 115 120 125  
 Cys Ile Leu Leu Thr Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys  
 130 135 140  
 Gln Pro Leu His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Arg Gln  
 145 150 155 160  
 Leu Ala Gly Val Ala Trp Ala Ile Gly Leu Val Gln Ser Ile Val Gln  
 165 170 175  
 Ile Pro Pro Thr Leu Thr Leu Pro Phe Cys Ser His Arg Gln Ile Asp  
 180 185 190  
 Asp Phe Leu Cys Glu Val Pro Ser Leu Ile Arg Leu Ser Cys Gly Asp  
 195 200 205  
 Thr Thr Phe Asn Glu Ile Gln Leu Ser Val Ala Gly Val Ile Phe Leu  
 210 215 220  
 Leu Val Pro Leu Ser Leu Ile Ile Val Ser Tyr Gly Val Ile Ala Arg  
 225 230 235 240  
 Ala Val Leu Lys Thr Asn Ser Ser Lys Gly Arg Arg Lys Ala Phe Gly  
 245 250 255  
 Thr Cys Ser Ser His Leu Ile Val Val Thr Leu Phe Tyr Ser Ser Val  
 260 265 270  
 Ile Ala Val Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Gln Glu Arg Ser  
 275 280 285  
 Lys Phe Phe Gly Leu Phe Tyr Ala Val Gly Thr Pro Thr Leu Asn Pro  
 290 295 300  
 Leu Val Tyr Thr Leu Arg Asn Lys Glu Val Lys Arg Ala Phe Trp Arg  
 305 310 315 320  
 Leu Leu Gly Lys Asp Ala Ala Ser Gly Arg Asn Xaa Gly Gln Ile Leu  
 325 330 335  
 Val Xaa Phe Leu Asn Tyr Lys Val Ser Ser Xaa Tyr Val Tyr Cys  
 340 345 350

&lt;210&gt; 2303

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M8 5051393-1-124150-125858 1430-472)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(320)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2303

Arg Leu Asp Thr Glu Ile Met Val Asn Gln Ser Ser Pro Val Val Phe  
 1 5 10 15  
 Phe Leu Leu Gly Phe Ser Glu His Pro Gln Leu Glu Lys Val Leu Phe  
 20 25 30  
 Val Val Val Leu Cys Ser Tyr Leu Leu Thr Leu Leu Gly Asn Thr Leu  
 35 40 45  
 Ile Leu Leu Leu Ser Thr Leu Asp Pro Arg Leu His Thr Pro Met Tyr  
 50 55 60  
 Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Thr

65					70					75					80
Cys	Val	Pro	Gln	Met	Leu	Phe	Asn	Leu	Trp	Gly	Pro	Glu	Lys	Thr	Ile
				85						90					95
Ser	Phe	Leu	Gly	Cys	Phe	Val	Xaa	Leu	Phe	Ile	Phe	Met	Ser	Leu	Gly
			100					105					110		
Thr	Thr	Glu	Cys	Ile	Leu	Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Val	Cys	Gln	Pro	Leu	His	Tyr	Ala	Thr	Val	Ile	Asn	Pro	Arg	Leu
		130				135					140				
Cys	Gln	Gln	Leu	Ala	Gly	Ile	Ala	Trp	Ala	Ile	Gly	Leu	Val	Gln	Ser
145					150					155					160
Ile	Val	Gln	Thr	Pro	Pro	Thr	Leu	Lys	Leu	Pro	Phe	Cys	Ser	His	Arg
				165					170					175	
Gln	Ile	Asp	Asn	Phe	Val	Cys	Glu	Val	Pro	Ser	Leu	Ile	Gln	Leu	Ser
		180					185						190		
Cys	Gly	Asp	Ile	Thr	Tyr	Asn	Glu	Ile	Gln	Met	Ala	Val	Ala	Ser	Ile
		195				200						205			
Phe	Ile	Val	Val	Val	Pro	Leu	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Ala
		210				215					220				
Ile	Ala	Arg	Ala	Val	Leu	Lys	Ile	Ser	Ser	Ala	Lys	Gly	Arg	Arg	Lys
225					230					235					240
Ala	Phe	Gly	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Thr	Leu	Phe	Tyr
				245					250					255	
Ser	Ser	Val	Ile	Ala	Val	Tyr	Leu	Gln	Pro	Lys	Asn	Pro	Tyr	Ala	Arg
		260					265						270		
Glu	Arg	Gly	Lys	Phe	Phe	Gly	Leu	Phe	Tyr	Ala	Val	Gly	Thr	Pro	Ile
		275					280					285			
Leu	Asn	Pro	Leu	Val	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Arg	Ala
	290					295					300				
Phe	Trp	Lys	Leu	Leu	Arg	Lys	Asp	Glu	Asp	Ser	Glu	Glu	Ser	Trp	Arg
305				310						315					320

&lt;210&gt; 2304

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M9 5051393-1-149569-151395 1755-805)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(317)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2304

Pro	Gln	Ala	Asn	His	Ser	Ser	Ala	Glu	Arg	Phe	Leu	Leu	Leu	Gly	Phe
1				5					10					15	
Ser	Asp	Trp	Pro	Ser	Leu	Gln	Pro	Val	Leu	Phe	Ala	Leu	Val	Leu	Leu
			20					25					30		
Cys	Tyr	Leu	Leu	Thr	Leu	Thr	Gly	Asn	Ala	Ala	Leu	Val	Leu	Leu	Ala
		35					40					45			
Ile	Arg	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Cys	His
	50					55					60				
Leu	Ala	Leu	Val	Asp	Val	Gly	Phe	Thr	Thr	Ser	Val	Val	Pro	Pro	Leu
65				70						75					80
Leu	Ala	Ser	Leu	Arg	Gly	Ser	Met	Leu	Gln	Leu	Pro	Arg	Ala	Gly	Cys
				85					90					95	
Met	Ala	Gln	Leu	Cys	Ser	Ser	Leu	Ala	Leu	Gly	Ser	Ala	Glu	Cys	Val
			100					105					110		
Leu	Leu	Ala	Val	Met	Ala	Leu	Asp	Arg	Ala	Ala	Ala	Val	Cys	Asn	Pro
		115					120					125			
Leu	Arg	Tyr	Thr	Ser	Leu	Ala	Ser	Pro	Leu	Leu	Cys	Arg	Thr	Leu	Ala
	130					135						140			



Gly Val Ser Trp Leu Gly Gly Leu Ala Asn Ser Ala Ala Gln Thr Ala  
 145 150 155 160  
 Leu Leu Ala Ala Arg Pro Leu Cys Ala Pro Arg Cys Leu Asp His Phe  
 165 170 175  
 Ile Cys Glu Leu Pro Ala Leu Leu Gln Leu Ala Cys Arg Gly Gly Arg  
 180 185 190  
 Ser Ala Thr Glu Arg Gln Met Phe Ala Ala Arg Val Val Ile Leu Leu  
 195 200 205  
 Val Pro Ser Ala Val Ile Leu Ala Ser Tyr Ile Ala Val Gly Arg Ala  
 210 215 220  
 Val Trp Gly Met His Ser Ser Gly Trp Arg Lys Ala Ala Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Thr Ala Val Cys Leu Phe Tyr Gly Ser Ala Thr  
 245 250 255  
 Tyr Thr Tyr Leu Gln Pro Thr His Ser Tyr Asn Gln Gly Arg Gly Lys  
 260 265 270  
 Phe Val Ser Leu Phe Tyr Thr Val Val Thr Pro Ala Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Ala Leu Arg Leu  
 290 295 300  
 Leu Arg Ser Leu Gly Arg Pro Xaa Val Gly Gln Xaa Lys  
 305 310 315

&lt;210&gt; 2305

&lt;211&gt; 348

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M10 5051393-1-39874-41685 1277-235)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(348)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2305

Val Leu Cys Thr Thr Leu Ser Xaa Gln Ser His Pro Ser Asn Xaa Ile  
 1 5 10 15  
 Gln Met Thr Met Val Asn Gln Ser Ser Pro Val Gly Phe Leu Leu Leu  
 20 25 30  
 Gly Phe Ser Glu His Pro Gln Leu Glu Lys Val Leu Ile Val Val Val  
 35 40 45  
 Leu Cys Ser Tyr Leu Leu Thr Leu Leu Gly Asn Thr Leu Ile Leu Leu  
 50 55 60  
 Leu Ser Thr Leu Asp Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu  
 65 70 75 80  
 Ser Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Thr Cys Val Pro  
 85 90 95  
 Gln Met Leu Phe Asn Leu Trp Gly Pro Ala Lys Thr Ile Ser Phe Leu  
 100 105 110  
 Gly Cys Phe Val Gln Leu Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu  
 115 120 125  
 Cys Ile Leu Leu Ala Val Met Ser Phe Asp Arg Tyr Val Ala Val Cys  
 130 135 140  
 Gln Pro Leu His Tyr Ala Thr Val Ile His Pro Arg Leu Cys Cys Gln  
 145 150 155 160  
 Leu Ala Ala Val Ala Cys Thr Ile Gly Leu Val Glu Ser Val Val Gln  
 165 170 175  
 Thr Pro Ser Thr Leu Arg Leu Pro Phe Cys Pro His His Gln Val Asp  
 180 185 190  
 Asp Phe Val Cys Glu Val Pro Ala Leu Ile Arg Leu Ser Cys Gly Asp  
 195 200 205  
 Thr Thr Tyr Asn Glu Ile Gln Met Ala Val Ala Ser Val Phe Ile Leu

210	215	220
Val Val Pro Leu Ser	Leu Ile Leu Val Ser Tyr	Gly Ala Ile Ala Arg
225	230	235
Ala Val Leu Arg Ile	Ser Ser Ala Lys Gly Arg Arg Lys Ala Phe Gly	240
245	250	255
Thr Cys Ser Ser His	Leu Ile Val Val Thr Leu Phe Tyr Ser Ser Val	260
260	265	270
Ile Ala Val Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Arg Glu Arg Gly	275	280
275	280	285
Lys Phe Phe Gly Leu Phe Tyr Ala Val Gly Thr Pro Ser Leu Asn Pro	290	295
290	300	305
Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Arg Ala Phe Arg Arg	310	315
305	310	315
Leu Leu Trp Lys Glu Val Lys Pro Ser Xaa His Thr Leu Ser Lys Leu	325	330
325	330	335
Asn Gly Lys Ser Ala Cys Leu Val Gly Leu Ser Phe	340	345
340	345	

&lt;210&gt; 2306

&lt;211&gt; 347

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M11 5051393-1-46409-49345 2458-1419)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(347)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2306

Cys Pro Lys Ser Thr Thr Ser Gly His Ile Glu Ser Cys Met Gly Gln	1	5	10	15
Tyr Phe Gln Leu Asp Ser Xaa Gln Lys Gln Thr Met Val Asn Gln Ser	20	25	30	
Ser Pro Val Gly Phe Leu Leu Leu Gly Phe Ser Glu His Pro Gln Leu	35	40	45	
Glu Lys Val Leu Phe Val Ile Val Leu Cys Ser Tyr Leu Leu Thr Leu	50	55	60	
Leu Gly Asn Thr Leu Ile Leu Leu Leu Ser Thr Leu Asp Pro Arg Leu	65	70	75	80
His Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp Leu	85	90	95	
Cys Phe Thr Thr Thr Cys Val Pro Gln Met Leu Phe Asn Leu Trp Gly	100	105	110	
Pro Ala Lys Thr Ile Ser Phe Leu Gly Cys Ser Val Gln Leu Phe Ile	115	120	125	
Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu Leu Thr Val Met Ser	130	135	140	
Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu His Tyr Ala Thr Val	145	150	155	160
Ile His Pro Arg Leu Cys Trp Lys Leu Ala Ala Val Ala Trp Met Met	165	170	175	
Gly Leu Leu Gln Ser Ile Val Gln Thr Pro Pro Thr Leu Lys Leu Pro	180	185	190	
Phe Cys Pro His Arg Gln Ile Asp Asp Phe Leu Cys Glu Val Pro Ser	195	200	205	
Leu Ile Arg Leu Ser Cys Gly Asp Thr Thr Phe Asn Glu Ile Gln Leu	210	215	220	
Ala Val Ser Ser Val Ile Leu Val Val Val Pro Leu Ser Leu Ile Leu	225	230	235	240
Val Ser Tyr Gly Ala Ile Ala Arg Ala Val Met Arg Ile Asn Ser Thr	245	250	255	

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<210> 2307
<211> 326
<212> PRT
<213> Mus musculus (M12 5051393-1-65471-67664 1437-460)

<220>
<221> VARIANT
<222> (1)...(326)
<223> Xaa = Any Amino Acid
```

1381

```
<210> 2308
<211> 282
<212> PRT
<213> Mus musculus (M13 6143913-1-1-2867 848-3)
```

```
<210> 2309
<211> 333
<212> PRT
<213> Mus musculus (M14 6143913-1-6180-10825 2950-1952)
```

<400> 2310  
Leu Leu Leu Gly Thr Met Asp His Val Asn Tyr Thr Trp Thr Arg Thr

```

1           5           10           15
Phe Ile Leu Ala Gly Phe Thr Thr Ser Gly Ala Leu Arg Pro Leu Ala
20
Phe Leu Gly Thr Leu Cys Ile Tyr Leu Leu Thr Leu Ala Gly Asn Leu
35
Phe Ile Ile Val Leu Val Gln Ala Asp Ser Gly Leu Ser Thr Pro Met
50
Tyr Phe Phe Ile Ser Val Leu Ser Phe Leu Glu Leu Trp Tyr Val Ser
65
Thr Thr Val Pro Thr Leu Leu His Thr Leu Leu His Gly His Ser Pro
85
Ile Pro Ser Ser Ala Cys Phe Val Gln Leu Tyr Val Phe His Ser Leu
100
Gly Met Thr Glu Cys Tyr Leu Leu Gly Val Met Ala Leu Asp Arg Tyr
115
Leu Ala Ile Cys Arg Pro Leu His Tyr His Ala Leu Met Ser Lys Gln
130
Val Gln Leu Trp Leu Ala Gly Ala Thr Trp Val Ala Gly Phe Ser Ala
145
Ala Leu Val Pro Ala Cys Leu Thr Ala Ser Leu Pro Tyr Cys Leu Lys
165
Glu Ile Ala His Tyr Phe Cys Asp Leu Ala Pro Leu Met Arg Leu Ala
180
Cys Val Ser Thr Arg Trp His Ala Arg Val His Gly Ala Val Ile Gly
195
Val Ala Thr Gly Cys Asn Phe Val Leu Ile Leu Gly Leu Tyr Gly Gly
210
Ile Leu Thr Ala Val Leu Lys Leu Pro Ser Ala Ala Ser Arg Ala Lys
225
Ala Phe Ser Thr Cys Ser Ser His Met Thr Val Val Ala Leu Phe Tyr
245
Ala Ser Ala Phe Thr Val Tyr Val Gly Ser Pro Gln Ser Arg Pro Glu
260
Gly Thr Asp Lys Leu Ile Ala Leu Val Tyr Ala Leu Leu Thr Pro Phe
275
Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala
290
Val Lys Arg Val Ser Glu Lys Ile Arg Thr Leu Leu Arg Asp Thr Xaa
305
Leu Ser Leu Leu Thr Leu Pro Thr Phe Arg Val Asn Ala
325
330

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&lt;210&gt; 2311

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M15 6143913-1-66312-67763 687-330)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(120)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2311

```

Val Thr Val Gly His Cys Leu Gly Gln Met Ser Leu Ser Val Asp Thr
1           5           10           15
Asp Phe Leu Ile Glu Phe Phe Cys Leu Lys Arg Lys Glu Lys Lys Arg
20
Lys Lys Lys Asp Cys Ser Pro Leu Tyr Leu Asp Ser Xaa Phe Gln Ser
35
His Glu Ile Thr Gly Ser Phe Ser Phe Ser Val Phe His Arg Ser Leu
50
55
60

```

Leu Ser Asn Ile Ser Leu Gln Met Met Ala Tyr Phe Gln Ile Thr Leu  
 65 70 75 80  
 Pro Ser Thr Phe Cys Ile Pro Xaa Gln Arg Ser Gln Thr Ser Ala Cys  
 85 90 95  
 Ile Tyr Val Leu Asn Asn Leu Leu Ser Leu Phe His Ser Leu Ile Ser  
 100 105 110  
 Ser Leu Xaa Pro Thr Ala Ser Thr  
 115 120

&lt;210&gt; 2312

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M16 6456795-1-106495-108409 847-1815)

&lt;400&gt; 2312

Leu Ser Ser Tyr Gln Phe Leu Leu Glu Lys Lys Arg Pro Ile Met Asn  
 1 5 10 15  
 Cys Ser Lys Thr Pro Gly Phe Ile Leu Leu Gly Leu Ser Ser Asp Pro  
 20 25 30  
 Glu Lys Trp Gln Pro Leu Phe Asn Ile Phe Leu Cys Leu Tyr Leu Leu  
 35 40 45  
 Gly Leu Leu Gly Asn Leu Leu Leu Leu Ala Ile Gly Thr Asp Val  
 50 55 60  
 His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Gln Leu Ser Leu Val  
 65 70 75 80  
 Asp Leu Cys Phe Ile Thr Thr Thr Ala Pro Lys Met Leu Glu Ala Leu  
 85 90 95  
 Trp Thr Gly Asp Gly Ser Ile Ser Phe Ser Gly Cys Leu Thr Gln Phe  
 100 105 110  
 Tyr Phe Phe Ala Val Phe Ala Asp Met Asp Asn Leu Leu Ala Val  
 115 120 125  
 Met Ala Ile Asp Arg Tyr Ala Ala Ile Cys His Pro Leu Phe Tyr Pro  
 130 135 140  
 Phe Leu Met Thr Pro Cys Arg Cys Glu Val Leu Ala Ser Gly Ser Trp  
 145 150 155 160  
 Gly Ile Ala His Cys Val Ser Leu Phe Tyr Thr Leu Leu Leu Ser Gln  
 165 170 175  
 Phe Tyr Tyr His Thr Asn Gln Gly Ile Pro His Phe Phe Cys Asp Ser  
 180 185 190  
 Arg Pro Leu Leu Leu Leu Ser Cys Ser Asp Thr His Leu Ser Glu Gly  
 195 200 205  
 Leu Met Met Ala Leu Ser Gly Val Leu Gly Met Ser Ser Val Leu Cys  
 210 215 220  
 Leu Val Ser Ser Tyr Gly Cys Ile Phe Tyr Ala Val Ala Arg Val Pro  
 225 230 235 240  
 Ser Ala Gln Gly Lys Arg Lys Ser Leu Ala Thr Cys Ser Ser His Leu  
 245 250 255  
 Ser Val Val Leu Leu Phe Tyr Ser Thr Val Phe Ala Thr Tyr Leu Lys  
 260 265 270  
 Pro Pro Ser Thr Ser His Ser Ser Ala Glu Val Val Ala Val Met  
 275 280 285  
 Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro Phe Ile Tyr Ser Leu Arg  
 290 295 300  
 Asn Lys Asp Val Lys Ser Ser Leu Arg Lys Ile Leu Asn Met Asp Lys  
 305 310 315 320  
 Phe Gln Gly

&lt;210&gt; 2313

&lt;211&gt; 284

&lt;212&gt; PRT

<213> Mus musculus (M17 6456795-1-108765-110526 1744-894)

<220>

<221> VARIANT

<222> (1)...(284)

<223> Xaa = Any Amino Acid

<400> 2313

Cys	Ile	Tyr	Ile	Cys	Val	Cys	Val	Cys	Val	Cys	Val	Cys	Val	Cys	Val
1				5				10						15	
Cys	Ile	Ser	Ile	Cys	Thr	Tyr	Leu	His	Ile	Xaa	Ile	His	Met	Cys	Val
			20					25					30		
Gln	Val	Val	Ile	Lys	Leu	Lys	Val	Lys	Xaa	Val	Thr	Trp	Lys	Glu	Val
			35				40					45			
Xaa	Lys	Met	Ser	Val	Glu	Lys	Arg	Thr	Gln	Ser	Arg	Gln	Lys	Ser	Gly
	50					55					60				
Tyr	Leu	Ala	Asn	Cys	Phe	Leu	Gln	Ser	Phe	Ile	Leu	Gly	Ser	Val	Asp
65					70					75					80
Arg	Asn	Ile	Cys	Leu	Ile	Val	Met	Val	Tyr	Asp	His	Tyr	Leu	Thr	
			85					90					95		
Ile	Cys	His	His	Leu	Xaa	Tyr	Pro	Phe	Leu	Met	Gly	Pro	Leu	Trp	Gly
			100					105					110		
Leu	Gly	Phe	Gly	Leu	Thr	Thr	Ser	Phe	Val	Val	Asp	Glu	Leu	Ile	Val
		115					120					125			
Ala	Leu	Met	Ala	Gln	Leu	Arg	Phe	Cys	Val	Pro	Lys	Gln	Ile	Asp	His
	130					135					140				
Phe	Tyr	Tyr	Asp	Phe	Ser	Pro	Leu	Val	Val	Leu	Ala	Tyr	Thr	Asp	Thr
145					150					155					160
Gly	Leu	Val	Gln	Val	Thr	Thr	Phe	Val	Leu	Phe	Val	Val	Phe	Leu	Thr
			165					170						175	
Val	Pro	Phe	Gly	Leu	Val	Leu	Ile	Ser	Cys	Ala	Gln	Ile	Ala	Val	Thr
		180						185					190		
Val	Leu	Arg	Val	Pro	Ser	Arg	Thr	Arg	Arg	Asn	Lys	Ala	Phe	Ser	Thr
		195					200					205			
Cys	Ser	Ser	His	Leu	Asp	Glu	Val	Ser	Thr	Phe	Tyr	Gly	Ser	Leu	Met
	210					215					220				
Val	Trp	Tyr	Thr	Glu	Pro	Ser	Ala	Val	His	Ser	Gln	Ile	Leu	Ser	Lys
225					230					235					240
Val	Ile	Ala	Leu	Leu	Tyr	Thr	Val	Val	Thr	Thr	Ile	Phe	Asp	Pro	Gly
			245						250					255	
Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Gln	Gln	Ser	Leu	Arg	Arg	His
			260				265						270		
Leu	Tyr	Cys	Lys	Pro	Thr	Glu	Met	Xaa	Pro	Lys	Arg				
		275					280								

<210> 2314

<211> 312

<212> PRT

<213> Mus musculus (M18 6456795-1-142088-143512 370-1305)

<400> 2314

Ile	Ser	Pro	Arg	Met	Asn	Cys	Ser	Gln	Ala	Pro	Gly	Phe	Ile	Leu	Leu
1				5				10						15	
Gly	Leu	Pro	Arg	Glu	Pro	Glu	Lys	Trp	Gln	His	Phe	Phe	Ile	Ile	Phe
			20					25					30		
Leu	Gly	Leu	Tyr	Leu	Leu	Gly	Leu	Leu	Gly	Asn	Leu	Leu	Leu	Leu	Leu
		35				40					45				
Ala	Ile	Gly	Ser	Asp	Val	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Gln	Leu	Ser	Leu	Val	Asp	Leu	Cys	Phe	Ile	Thr	Thr	Thr	Ala	Pro
65					70					75					80

Lys Thr Leu Glu Thr Trp Trp Thr Gly Asp Gly Ser Ile Ser Phe Ser  
                                     85                                    90                                    95  
 Gly Cys Leu Thr Gln Leu Tyr Phe Phe Gly Val Phe Ala Asp Met Asp  
                                     100                                    105                                    110  
 Asn Leu Leu Leu Ala Val Met Ala Ile Asp Arg Tyr Ala Ala Ile Cys  
                                     115                                    120                                    125  
 His Pro Leu Leu Tyr Pro Leu Leu Met Thr Pro Cys Arg Cys Glu Val  
                                     130                                    135                                    140  
 Leu Val Ser Gly Ser Trp Gly Ile Ala His Cys Val Ser Leu Met Tyr  
 145                                    150                                    155                                    160  
 Thr Leu Leu Leu Ser Gln Leu Tyr Phe His Thr Asn Gln Glu Ile Pro  
                                     165                                    170                                    175  
 Arg Phe Phe Cys Asp Cys Arg Pro Leu Leu Leu Leu Ser Cys Ser Asp  
                                     180                                    185                                    190  
 Thr His Leu Asn Glu Val Leu Met Met Ala Leu Ala Gly Val Leu Gly  
                                     195                                    200                                    205  
 Val Ser Ala Val Leu Cys Ile Val Ser Ser Tyr Gly Cys Ile Phe Tyr  
 210                                    215                                    220  
 Ala Val Ala Arg Val Pro Ser Ala Gln Gly Lys Arg Lys Ala Leu Thr  
 225                                    230                                    235                                    240  
 Thr Cys Ser Ser His Leu Ser Val Val Leu Leu Phe Tyr Ser Thr Val  
                                     245                                    250                                    255  
 Phe Ala Thr Tyr Leu Lys Pro Pro Ser Thr Ser His Ser Ser Gly Glu  
                                     260                                    265                                    270  
 Val Val Ala Ala Val Met Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro  
                                     275                                    280                                    285  
 Phe Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ser Ser Leu Arg Arg  
                                     290                                    295                                    300  
 Val Leu Asn Ile Glu Lys Ser Gln  
 305                                    310

&lt;210&gt; 2315

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M19 6456795-1-14626-16881 1501-527)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(325)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2315

Cys Pro Phe Leu Xaa Val Met Ser Asn Gln Thr Ser Val Thr Glu Phe  
 1                                    5                                    10                                    15  
 Leu Leu Leu Gly Val Thr Asp Ile Gln Glu Leu Asn Pro Ile Leu Phe  
                                     20                                    25                                    30  
 Val Ile Phe Phe Thr Ile Tyr Phe Val Asn Ile Thr Gly Asn Gly Ala  
                                     35                                    40                                    45  
 Ile Leu Met Ile Val Ile Leu Asp Pro Arg Leu His Ser Pro Met Tyr  
                                     50                                    55                                    60  
 Phe Phe Leu Gly Asn Leu Ala Cys Leu Asp Ile Cys Phe Ser Thr Val  
 65                                    70                                    75                                    80  
 Thr Leu Pro Lys Met Leu Gln Asn Leu Leu Ser Thr Asn Lys Ala Ile  
                                     85                                    90                                    95  
 Ser Phe Leu Gly Cys Ile Thr Gln Leu His Phe Phe His Phe Leu Gly  
                                     100                                    105                                    110  
 Ser Thr Glu Ala Met Leu Leu Pro Val Met Ala Phe Asp Arg Phe Val  
                                     115                                    120                                    125  
 Ala Ile Cys Arg Pro Leu His Tyr Ser Val Ile Met Asn His Gln Leu  
                                     130                                    135                                    140  
 Cys Ile His Met Thr Val Thr Ile Trp Thr Leu Gly Phe Phe His Ala



145		150		155		160									
Leu	Leu	His	Ser	Val	Met	Thr	Ser	Arg	Leu	Ser	Phe	Cys	Gly	Pro	Asn
		165		170		175									
His	Val	His	His	Phe	Phe	Cys	Asp	Ile	Lys	Pro	Leu	Leu	Asp	Leu	Ala
		180		185		190									
Cys	Gly	Asn	Thr	Glu	Leu	Asn	Leu	Trp	Leu	Leu	Asn	Thr	Val	Thr	Gly
		195		200		205									
Thr	Ile	Ala	Leu	Thr	Pro	Phe	Phe	Leu	Thr	Phe	Leu	Ser	Tyr	Phe	Tyr
		210		215		220									
Ile	Ile	Thr	Tyr	Leu	Phe	Leu	Lys	Thr	Arg	Ser	Cys	Ser	Met	Leu	His
		225		230		235									
Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser	His	Phe	Met	Val	Val	Ile	Leu	Leu
		245		250		255									
Tyr	Val	Pro	Val	Leu	Phe	Thr	Tyr	Ile	Arg	Pro	Ala	Ser	Gly	Ser	Ser
		260		265		270									
Leu	Asp	Gln	Asp	Arg	Ile	Ile	Ala	Ile	Met	Tyr	Ser	Val	Val	Thr	Pro
		275		280		285									
Ala	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Arg	Ser
		290		295		300									
Ala	Leu	Asn	Arg	Lys	Val	Arg	Arg	Trp	Leu	Xaa	Phe	Glu	Glu	Ile	Xaa
		305		310		315									
Ile	Thr	Leu	Leu	Trp											
				325											

&lt;210&gt; 2316

&lt;211&gt; 237

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M20 6456795-1-147325-149242 1694-983)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(237)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2316

Leu	Xaa	Thr	Tyr	Ile	Pro	Thr	His	Thr	His	Thr	His	Thr	His	Thr	His
1				5				10					15		
Thr	His	Thr	His	Ile	Tyr	Ile	Cys	Asn	Tyr	Asn	Val	Gln	Arg	Asn	Asn
			20				25					30			
Gly	Tyr	Gln	Val	Asp	His	Tyr	Leu	Xaa	Ile	Cys	His	Pro	Leu	His	Tyr
		35					40				45				
Pro	Leu	Leu	Met	Gly	His	Gln	Trp	Cys	Leu	Gly	Phe	Val	Leu	Thr	Leu
	50				55					60					
Gln	Leu	Phe	Gly	Ile	Thr	Val	Asp	Gly	Leu	Val	Val	Ile	Leu	Val	Ala
	65			70				75						80	
Gln	Met	Trp	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Asp	Tyr	Phe	Xaa	Tyr	Asn
			85				90					95			
Phe	Ser	Pro	Ile	Met	Asp	Leu	Ala	Xaa	Ser	Asp	Thr	Gln	Val	Phe	Gln
		100					105					110			
Val	Ile	Thr	Phe	Val	Leu	Ser	Val	Val	Phe	Leu	Thr	Val	Pro	Phe	Gly
	115					120						125			
Leu	Val	Leu	Ile	Ser	Tyr	Ile	Gln	Ile	Val	Val	Thr	Val	Leu	Arg	Val
	130					135					140				
Leu	Ser	Gly	Asp	Arg	Arg	Thr	Lys	Asp	Phe	Ser	Thr	Cys	Ser	Ser	His
	145			150				155							160
Leu	Ala	Val	Val	Ser	Thr	Phe	Tyr	Arg	Ser	Leu	Met	Val	Leu	Tyr	Thr
			165				170							175	
Val	Pro	Leu	Leu	Leu	Ser	Lys	Val	Ile	Ala	Leu	Leu	Tyr	Lys	Val	Val
		180				185						190			
Ile	Pro	Ile	Phe	Asn	His	Val	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val
		195				200						205			

Pro Xaa Ala Leu Arg Arg His Leu Tyr Cys Lys Pro Thr Glu Met Xaa  
 210 215 220  
 Pro Lys Met Glu Gly Ser Lys Asp Phe Leu Phe Asn Cys  
 225 230 235

<210> 2317

<211> 237

<212> PRT

<213> Mus musculus (M21 6456795-1-153518-155435 1694-983)

<220>

<221> VARIANT

<222> (1)...(237)

<223> Xaa = Any Amino Acid

<400> 2317

Leu Xaa Thr Tyr Ile Pro Thr His Thr His Thr His Thr His Thr His  
 1 5 10 15  
 Thr His Thr His Ile Tyr Ile Cys Asn Tyr Asn Val Gln Arg Asn Asn  
 20 25 30  
 Gly Tyr Gln Val Asp His Tyr Leu Xaa Ile Cys His Pro Leu His Tyr  
 35 40 45  
 Pro Leu Leu Met Gly His Gln Trp Cys Leu Gly Phe Val Leu Thr Leu  
 50 55 60  
 Gln Leu Phe Gly Ile Thr Val Asp Gly Leu Val Val Ile Leu Val Ala  
 65 70 75 80  
 Gln Met Trp Phe Cys Gly Pro Asn Leu Ile Asp Tyr Phe Xaa Tyr Asn  
 85 90 95  
 Phe Ser Pro Ile Met Asp Leu Ala Xaa Ser Asp Thr Gln Val Phe Gln  
 100 105 110  
 Val Ile Thr Phe Val Leu Ser Val Phe Leu Thr Val Pro Phe Gly  
 115 120 125  
 Leu Val Leu Ile Ser Tyr Ile Gln Ile Val Val Thr Val Leu Arg Val  
 130 135 140  
 Leu Ser Gly Asp Arg Arg Thr Lys Asp Phe Ser Thr Cys Ser Ser His  
 145 150 155 160  
 Leu Ala Val Val Ser Thr Phe Tyr Arg Ser Leu Met Val Leu Tyr Thr  
 165 170 175  
 Val Pro Leu Leu Leu Ser Lys Val Ile Ala Leu Leu Tyr Lys Val Val  
 180 185 190  
 Ile Pro Ile Phe Asn His Val Ile Tyr Thr Leu Arg Asn Gln Glu Val  
 195 200 205  
 Pro Xaa Ala Leu Arg Arg His Leu Tyr Cys Lys Pro Thr Glu Met Xaa  
 210 215 220  
 Pro Lys Met Glu Gly Ser Lys Asp Phe Leu Phe Asn Cys  
 225 230 235

<210> 2318

<211> 318

<212> PRT

<213> Mus musculus (M22 6456795-1-37464-41929 1501-549)

<220>

<221> VARIANT

<222> (1)...(318)

<223> Xaa = Any Amino Acid

<400> 2318

Cys Val Ile Phe Xaa Val Met Leu Asn Gln Thr Ser Val Thr Glu Phe  
 1 5 10 15  
 Ile Leu Leu Gly Val Arg Asp Ile Gln Glu Pro Gln Pro Phe Leu Phe

```

      20      25      30
Ala Ile Phe Phe Thr Ile Tyr Phe Val Asn Ile Thr Gly Asn Gly Ala
      35      40      45
Ile Leu Met Ile Val Ile Leu Asp Pro Arg Leu His Ser Pro Met Tyr
      50      55      60
Phe Phe Leu Gly Asn Leu Ala Cys Leu Asp Ile Ser Tyr Ser Thr Val
      65      70      75      80
Thr Val Pro Lys Met Leu Glu Asn Leu Leu Ser Thr Asn Lys Ala Ile
      85      90      95
Ser Leu Leu Gly Cys Ile Thr Gln Leu His Phe Phe His Phe Leu Gly
      100      105      110
Thr Thr Glu Ser Leu Leu Leu Ala Val Met Ala Phe Asp Arg Phe Val
      115      120      125
Ala Ile Cys Arg Pro Leu His Tyr Ser Val Ile Met Asn Trp Gln Val
      130      135      140
Cys Ile Leu Met Ala Val Thr Ile Trp Thr Ile Ala Phe Leu His Ala
      145      150      155      160
Leu Leu His Ser Val Met Thr Ser Arg Leu Ser Phe Cys Gly Leu Asn
      165      170      175
His Ile His His Phe Phe Cys Asp Val Lys Pro Leu Leu Glu Leu Ala
      180      185      190
Cys Gly Asn Thr Glu Leu Asn Leu Trp Leu Leu Asn Thr Val Thr Gly
      195      200      205
Thr Ile Ala Ser Val Pro Phe Phe Leu Thr Phe Leu Ser Tyr Phe Tyr
      210      215      220
Ile Ile Thr Tyr Leu Phe Leu Lys Thr Arg Ser Cys Ser Met Leu His
      225      230      235      240
Lys Ala Leu Ser Thr Cys Ala Ser His Phe Met Val Val Val Leu Phe
      245      250      255
Tyr Ala Pro Val Leu Phe Thr Tyr Ile Arg Pro Thr Ser Gly Ser Ser
      260      265      270
Leu Asp Gln Asp Arg Ile Ile Ala Ile Met Tyr Ser Val Val Thr Pro
      275      280      285
Ala Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Ser
      290      295      300
Ala Leu Asn Arg Lys Val Arg Arg Trp Leu Leu Glu Glu
      305      310      315

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&lt;210&gt; 2319

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M23 6456795-1-63066-65167 771-1694)

&lt;400&gt; 2319

```

Val Leu Leu Asn His Thr Leu Val Thr Glu Phe Leu Leu Leu Gly Val
      1      5      10      15
Thr Asp Ile Gln Glu Leu Asn Pro Ile Leu Phe Val Thr Val Leu Ala
      20      25      30
Met Tyr Phe Val Asn Val Ala Gly Asn Gly Ala Ile Leu Met Ile Val
      35      40      45
Ile Ser Asp Pro Arg Leu His Leu Pro Met Tyr Phe Phe Leu Gly Asn
      50      55      60
Leu Ala Cys Leu Asp Ile Cys Phe Ser Thr Val Thr Val Pro Lys Met
      65      70      75      80
Leu Glu Asn Phe Phe Ser Thr Ser Lys Ala Ile Ser Phe Leu Gly Cys
      85      90      95
Ile Thr Gln Leu His Phe Phe Asn Phe Leu Gly Ser Thr Glu Ala Leu
      100      105      110
Leu Leu Thr Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Arg Pro
      115      120      125
Leu His Tyr Pro Ala Ile Met Asn Ser Gln Val Cys Ile Gln Val Ala

```

130		135		140
Ile Ser Ile Trp Ala	Ile Pro Phe Leu His	Ala Leu Val His Ser Ile		
145	150	155	160	
Leu Thr Ser Gln Leu	Asn Phe Cys Gly Ser	Asn His Ile His His Phe		
	165	170	175	
Phe Cys Asp Val Lys	Pro Leu Leu Glu Leu	Ala Cys Gly Asn Thr Glu		
	180	185	190	
Leu Asn Arg Trp Leu	Leu Asn Thr Leu Thr	Gly Thr Val Ala Ile Gly		
	195	200	205	
Leu Phe Phe Leu Thr	Phe Leu Ser Tyr Phe	Tyr Ile Val Thr Tyr Leu		
	210	215	220	
Phe Leu Lys Thr Arg	Ser Cys Ser Met Leu	His Lys Ala Leu Ser Thr		
225	230	235	240	
Cys Ala Ser His Phe	Met Val Val Met Ile	Phe Tyr Ala Pro Val Leu		
	245	250	255	
Phe Ile Tyr Ile Asn	Pro Asp Ser Gly Ser	Ser Leu Glu Lys Asp Arg		
	260	265	270	
Ile Ile Ala Val Met	Tyr Thr Val Val Thr	Pro Ala Leu Asn Pro Leu		
	275	280	285	
Ile Tyr Thr Leu Arg	Asn Lys Glu Val Arg	Gly Ala Leu Asn Arg Lys		
	290	295	300	
Ile Arg Ile Leu				
305				

&lt;210&gt; 2320

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M24 6456795-1-750-2697 1501-527)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(325)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2320

Cys Pro Phe Leu Xaa	Val Met Ser Asn Gln Thr	Ser Val Thr Glu Phe		
1	5	10	15	
Leu Leu Leu Gly Val	Thr Asp Ile Gln Glu Leu	Asn Pro Ile Leu Phe		
	20	25	30	
Val Ile Phe Phe Thr	Ile Tyr Phe Ile Asn Ile	Thr Gly Asn Gly Ala		
	35	40	45	
Ile Leu Met Ile Val	Ile Leu Asp Pro Arg Leu	His Ser Pro Met Tyr		
	50	55	60	
Phe Phe Leu Gly Asn	Leu Ala Cys Leu Asp Ile	Ser Tyr Ser Thr Val		
65	70	75	80	
Thr Val Pro Lys Leu	Gln Asn Leu Leu Ser Thr	Ser Lys Ala Ile		
	85	90	95	
Ser Phe Leu Gly Cys	Ile Thr Gln Leu His Phe	Phe His Phe Leu Gly		
	100	105	110	
Ser Thr Glu Thr Met	Leu Leu Pro Val Met Ala	Phe Asp Arg Phe Val		
	115	120	125	
Ala Ile Cys Arg Pro	Leu His Tyr Ser Val Ile	Met Asn His Gln Leu		
	130	135	140	
Cys Ile His Met Thr	Val Thr Ile Trp Thr Leu	Gly Phe Phe His Ala		
145	150	155	160	
Leu Leu His Ser Val	Met Thr Ser Arg Leu	Ser Phe Cys Gly Pro	Asn	
	165	170	175	
His Val His His Phe	Phe Cys Asp Ile Lys	Pro Leu Leu Asp Leu	Ala	
	180	185	190	
Cys Gly Asn Thr Glu	Leu Asn Leu Trp Leu	Leu Asn Thr Val Thr	Gly	
	195	200	205	

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Thr Ile Ala Leu Thr Ser Phe Phe Leu Ile Phe Leu Ser Tyr Phe Tyr
 210                215                220
Ile Ile Thr Asn Leu Leu Lys Thr Arg Ser Cys Ser Met Leu His
225                230                235                240
Lys Ala Leu Ser Thr Cys Ala Ser His Phe Met Val Val Val Leu Phe
                245                250                255
Tyr Ala Pro Val Leu Phe Thr Tyr Ile Arg Pro Ala Ser Gly Ser Ser
                260                265                270
Leu Asp Gln Asp Thr Ile Ile Ala Ile Met Tyr Ser Val Val Thr Pro
                275                280                285
Ala Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Ser
                290                295                300
Ala Leu Asn Arg Lys Val Arg Arg Trp Leu Xaa Pro Glu Glu Ser Lys
305                310                315                320
Glu Val Phe Phe Ser
                325

```

&lt;210&gt; 2321

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M25 6456795-1-78460-79066 2-526)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(177)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2321

```

Val Ser Ala His Val Cys Met Gly Cys Xaa Leu Ser Trp Pro Val Arg
 1                5                10                15
Cys Glu Ile Ile Phe Gly Val Met His Thr Thr Val Asn Phe Ser Ile
                20                25                30
Val Leu Cys Gly Thr Ser Val Ile His Xaa Phe Cys Asp Val Leu Leu
                35                40                45
Val Leu Lys Leu Ser Cys Leu Tyr Asp His Val Ser Glu Ile Ala Ile
                50                55                60
Ser Asp Phe Ser Ile Ser Leu Ala Phe Phe Cys Phe Ile Ser Pro Asn
65                70                75                80
Phe Thr Tyr Val His Ile Phe Ser Thr Glu Leu Arg Met Pro Phe Val
                85                90                95
Glu Gly Lys Thr Ser Val Phe Ser Thr Cys Leu Cys His Met Thr Ser
                100                105                110
Ile Leu Phe Ile Pro Thr Gly Ile Phe Glu Phe Leu Arg Ser His Thr
                115                120                125
Glu Ser Ser Thr Ser Leu Asp Phe Ile Leu Asn Phe Ser Tyr Phe Ser
130                135                140
Leu Ser Thr Leu Asn Pro Gly Ile Tyr Ser Leu Arg Asn Glu Ala Val
145                150                155                160
Asp Thr Val Gln Arg Lys Ile Phe Phe Phe Lys Glu Lys Tyr Leu Phe
                165                170                175
Leu

```

&lt;210&gt; 2322

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M26 6456795-1-84123-87238 211-1134)

&lt;400&gt; 2322

```

Val Leu Leu Asn His Thr Phe Ile Thr Glu Phe Leu Leu Leu Gly Val
 1                5                10                15

```

Thr Asp Ile Gln Glu Leu Asn Pro Ile Leu Phe Val Met Val Leu Ala  
 20 25 30  
 Met Tyr Phe Ile Asn Val Phe Gly Asn Gly Ala Ile Met Met Ile Val  
 35 40 45  
 Ile Leu Asp Ser Arg Leu Tyr Ser Pro Met Tyr Phe Phe Leu Gly Asn  
 50 55 60  
 Leu Ala Cys Leu Asp Ile Cys Phe Ser Thr Val Thr Val Pro Lys Met  
 65 70 75 80  
 Leu Glu Asn Phe Phe Ser Thr Ser Lys Ala Ile Ser Phe Leu Gly Cys  
 85 90 95  
 Ile Thr Gln Leu His Phe Phe His Phe Leu Gly Cys Thr Asp Ala Leu  
 100 105 110  
 Leu Leu Thr Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Arg Pro  
 115 120 125  
 Leu His Tyr Pro Ser Ile Met Asn Arg Gln Val Cys Ile Gln Val Ala  
 130 135 140  
 Ala Thr Ile Trp Ala Ile Pro Phe Leu His Ala Leu Val His Ser Ile  
 145 150 155 160  
 Leu Thr Ser Gln Leu Asn Phe Cys Gly Ser Asn Arg Ile His His Phe  
 165 170 175  
 Phe Cys Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Gly Asn Thr Glu  
 180 185 190  
 Leu Asn Arg Trp Leu Leu Asn Thr Leu Ala Gly Thr Ile Gly Ile Gly  
 195 200 205  
 Leu Phe Phe Leu Thr Phe Leu Ser Tyr Phe Tyr Ile Val Thr Tyr Leu  
 210 215 220  
 Phe Leu Lys Thr His Ser Cys Ser Met Leu His Lys Ala Leu Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Phe Met Val Val Met Ile Phe Tyr Ala Pro Val Leu  
 245 250 255  
 Phe Ile Tyr Ile Asn Pro Asp Ser Gly Ser Ser Leu Glu Lys Asp Arg  
 260 265 270  
 Ile Ile Ala Val Met Tyr Thr Val Val Thr Pro Ala Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ala Leu Arg Asn Lys Glu Val Arg Cys Ala Leu Asn Arg Lys  
 290 295 300  
 Leu Arg Ile Leu  
 305

&lt;210&gt; 2323

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M27 6456795-1-89089-90071 35-969)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(314)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2323

Ser Leu Phe Tyr Ser Gln Arg Ser Arg Met Asn Val Ala Asn Phe Thr  
 1 5 10 15  
 Ala Met Thr Ile Phe Leu Leu Leu Met Gly Phe Ser Arg Asn Ser Gln  
 20 25 30  
 Val Glu Ile Ile Phe Ser Thr Leu Ala Leu Val Val Leu Ile Gly Thr  
 35 40 45  
 Ile Ser Ile Val Ala Val Thr Ser Leu Ser Ile Arg Leu Cys Ser Leu  
 50 55 60  
 Met Pro Phe Leu Leu Ile His Leu Phe Cys Phe Asp Val Cys Tyr Ile  
 65 70 75 80  
 Ser Val Met Met Pro Lys Ser Val Cys Ser Ser Phe Met Tyr Ser Ala

```

      85              90              95
Tyr Ile Ser Leu Ile Glu Cys Thr Leu Gln Val Phe Tyr Ser Gln Ser
      100              105              110
Ser Tyr Thr Ala Met Ala Ile Leu Thr Val Met Ser Tyr Asp Cys Tyr
      115              120              125
Met Ala Val Trp His Lys Val Ile Thr Asn Val Ser Thr Cys Ile His
      130              135              140
Gly Val Leu Ala Val Leu Val Asn Gly Cys Glu Ile Ile Phe Gly Val
      145              150              155              160
Met His Thr Thr Leu Thr Phe Ser Ile Tyr Ile Cys Gly Thr Ser Thr
      165              170              175
Ile Arg Xaa Phe Cys Asp Val Leu Leu Val Leu Lys Leu Ser Phe Thr
      180              185              190
Asn Asp His Val Asn Glu Leu Glu Ser Leu Ala Phe Ser Ser Val Glu
      195              200              205
Gly Arg Thr Lys Ser Phe Ser Thr Cys Leu Gly His Val Ser Val Gly
      210              215              220
Ser Leu Phe Asn Pro Pro Gly Val Phe Glu Phe Leu Asn Pro Tyr Ser
      225              230              235              240
Glu Ser Pro Thr Ser Leu Asp Ile Ile Val Thr Val Phe Ile Leu Pro
      245              250              255
Gln Thr Leu Ser Val Glu Ile Tyr Ser Leu Ser Asn Glu Ala Ile Asp
      260              265              270
Thr Ala Xaa Arg Lys Phe Phe Phe Gln Arg Lys Thr Ser Leu Ser Ile
      275              280              285
Leu His Tyr Phe Leu Leu Gly Ser His Ile Xaa Xaa Val Leu Arg Lys
      290              295              300
Thr Thr Val Ser Met Asn Gln Leu Lys Leu
      305              310

```

&lt;210&gt; 2324

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M28 6456795-1-95949-101645 434-1360)

&lt;400&gt; 2324

```

Val Leu Leu Asn Gln Thr Leu Val Thr Glu Phe Leu Leu Leu Gly Val
  1      5      10      15
Thr Asp Ile Gln Glu Leu Asn Pro Ile Leu Phe Val Thr Val Leu Ala
      20      25      30
Met Tyr Phe Val Asn Val Ala Gly Asn Gly Ala Ile Leu Leu Ile Val
      35      40      45
Ile Ser Asp Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn
      50      55      60
Leu Ala Cys Leu Asp Ile Cys Phe Ser Thr Val Thr Val Pro Lys Ile
      65      70      75      80
Leu Asp Asn Phe Phe Ser Thr Ser Lys Ala Ile Ser Phe Leu Gly Cys
      85      90      95
Ile Thr Gln Leu Tyr Phe Phe His Leu Leu Gly Ser Thr Glu Ala Leu
      100      105      110
Leu Leu Ala Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Arg Pro
      115      120      125
Leu His Tyr Pro Ser Ile Met Asn Gly Gln Val Cys Ile Gln Val Ala
      130      135      140
Ile Ser Ile Trp Ala Ile Pro Phe Val His Ala Leu Val His Ser Ile
      145      150      155      160
Leu Thr Ser Gln Leu Asn Phe Cys Gly Ser Asn Gln Ile His His Phe
      165      170      175
Phe Cys Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Gly Asn Thr Glu
      180      185      190
Leu Asn Arg Trp Leu Leu Asn Thr Phe Thr Gly Thr Phe Ala Ile Gly

```

```

      195              200              205
Leu Phe Phe Leu Thr Phe Leu Ser Tyr Phe Tyr Ile Ile Thr Tyr Leu
  210              215              220
Phe Leu Lys Thr Arg Ser Cys Ser Met Leu His Lys Ala Leu Ser Thr
  225              230              235              240
Cys Ala Ser His Phe Met Val Val Met Ile Phe Tyr Ala Pro Val Leu
      245              250              255
Phe Ile Tyr Ile Asn Pro Asp Ser Gly Ser Ser Leu Glu Lys Asp Arg
      260              265              270
Ile Ile Ala Val Met Tyr Thr Val Val Thr Pro Ala Leu Asn Pro Leu
      275              280              285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Gly Ala Leu Asn Arg Lys
      290              295              300
Leu Arg Ile Leu Leu
305

```

&lt;210&gt; 2325

&lt;211&gt; 296

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M29 6691272-106-1-1090 908-19)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(296)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2325

```

Cys Ile Phe Ile Gly Val Phe Leu Ile Ser Ser Ala Ser Gly Ala Met
  1              5              10              15
Pro Gly Gln Asn Tyr Ser Thr Ile Ser Glu Phe Ile Leu Phe Gly Phe
      20              25              30
Ser Ala Phe Pro His Gln Met Leu Pro Ala Leu Phe Leu Leu Tyr Leu
      35              40              45
Leu Met Tyr Leu Phe Thr Leu Leu Gly Asn Leu Val Ile Met Ala Ala
      50              55              60
Ile Trp Thr Glu His Arg Leu His Thr Pro Met Tyr Leu Phe Leu Cys
      65              70              75              80
Ala Leu Ser Ile Ser Glu Ile Leu Phe Thr Val Val Ile Thr Pro Arg
      85              90              95
Met Leu Ser Asp Met Leu Ser Thr His Arg Ser Ile Thr Phe Ile Ala
      100              105              110
Cys Ala Asn Gln Leu Phe Phe Ser Phe Thr Phe Gly Tyr Thr His Ser
      115              120              125
Phe Leu Leu Val Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys Arg
      130              135              140
Pro Leu His Tyr His Ala Leu Met Ser Leu Gln Gly Cys Ala Arg Leu
      145              150              155              160
Val Ala Trp Ser Trp Ala Gly Gly Ser Leu Ile Gly Met Ala Leu Thr
      165              170              175
Ile Ile Ile Phe His Leu Thr Phe Cys Glu Ser Asn Val Ile His His
      180              185              190
Ile Leu Cys His Val Phe Ser Leu Lys Leu Ala Cys Gly Glu Arg
      195              200              205
Thr Ala Phe Val Thr Ile Ala Val Ile Leu Val Cys Val Thr Pro Leu
      210              215              220
Ile Gly Cys Leu Val Phe Ile Ile Leu Ser Tyr Ile Phe Ile Val Ala
      225              230              235              240
Ala Ile Leu Arg Ile Pro Ser Thr Glu Gly Arg His Lys Thr Phe Ser
      245              250              255
Thr Cys Ala Ser His Leu Thr Val Val Ile Val His Tyr Gly Phe Ala
      260              265              270

```



Ser Leu Ile Tyr Leu Gln Gly Tyr Pro Leu Glu Ser Asp Xaa Thr Gly  
 275 280 285  
 Met Ser Ser Trp His Ala Ser Phe  
 290 295

<210> 2326

<211> 334

<212> PRT

<213> Mus musculus (M30 6691273-103-1206-2961 586-1585)

<220>

<221> VARIANT

<222> (1)...(334)

<223> Xaa = Any Amino Acid

<400> 2326

Trp Ala Asn Gln Ser Arg Ala Arg Glu Leu Glu Phe Val Leu Leu Gly  
 1 5 10 15  
 Phe Ala His Val Pro Ser Leu Arg Pro Met Leu Ala Ala Leu Phe Leu  
 20 25 30  
 Ala Ala Phe Leu Leu Thr Met Ser Gly Asn Ser Leu Ile Val Leu Leu  
 35 40 45  
 Thr Ser Leu Asp Phe Gly Leu Arg Thr Pro Met Tyr Phe Phe Leu Arg  
 50 55 60  
 Gln Leu Ala Leu Val Glu Ile Cys Phe Ser Leu Asp Val Ala Pro Arg  
 65 70 75 80  
 Leu Leu Val Thr Leu Leu Gln Pro Gly Arg Gly Val Ser Pro Thr Ser  
 85 90 95  
 Cys Ala Leu Gln Leu Leu Leu Val Leu Ser Cys Val Thr Ser Glu Cys  
 100 105 110  
 Phe Leu Leu Met Val Met Ala Trp Asp Arg Phe Leu Ala Ile Cys Arg  
 115 120 125  
 Pro Leu Arg Tyr Gly Ala Ile Met Ser Pro Gln Leu Cys Tyr Leu Leu  
 130 135 140  
 Ala Thr Thr Cys Trp Leu Ala Gly Ile Pro Val Ala Leu Val Phe Thr  
 145 150 155 160  
 Ile Trp Leu Phe Asn Phe Pro Phe Cys Gly Pro Arg Gly Ile Arg His  
 165 170 175  
 Phe Phe Cys Asp Ile Ala Pro Leu Leu Ser Leu Val Cys Ala Asp Thr  
 180 185 190  
 Arg Val Phe Glu Ala Asn Val Phe Val Ala Thr Val Leu Val Ile Met  
 195 200 205  
 Val Pro Phe Cys Leu Ile Ala Thr Ser Tyr Val Met Ile Leu Val Ala  
 210 215 220  
 Val Leu Arg Met Pro Ser Ala Ser Gly Arg His Lys Ala Leu Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Ile Val Val Ile Leu Phe Tyr Gly Thr Thr Gly  
 245 250 255  
 Val Ile His Leu Arg Pro Lys Ala Ser Tyr Ser Pro Glu Ser Lys Gln  
 260 265 270  
 Val Val Ser Leu Ser Tyr Thr Met Val Thr Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Ala Ala Phe Gly Arg Val  
 290 295 300  
 Cys Cys Gly Arg Xaa Glu Ser Arg Leu His Glu Xaa Thr His Leu Leu  
 305 310 315 320  
 Cys Gln Pro Phe Ser Val Arg Xaa Leu Leu Arg Pro Thr Phe  
 325 330

<210> 2327

<211> 330

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M31 6691273-105-4369-6206 1597-608)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(330)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2327

```

Val Leu Leu Xaa Cys Tyr Xaa Arg Thr Asp Asp Asn Asn Trp Leu Val
 1          5          10          15
Ser Leu Gln Met Ala Arg Ser Leu Glu Leu Ala Asn Met Thr Arg Val
 20          25          30
Gln Lys Phe Leu Leu Leu Gly Leu Ser Thr Arg Leu Asp Ile Arg Asp
 35          40          45
Ala Leu Phe Ala Val Phe Leu Thr Leu Tyr Leu Leu Thr Leu Val Glu
 50          55          60
Asn Thr Leu Ile Ile Tyr Leu Ile Phe Ser His Lys Glu Leu His Lys
 65          70          75          80
Pro Met Tyr Phe Phe Leu Gly Asn Leu Ser Cys Leu Glu Met Cys Tyr
 85          90          95
Val Ser Val Thr Met Pro Thr Leu Leu Val Gly Leu Trp Thr Gly Pro
 100         105         110
Tyr His Ile Pro Phe Thr Leu Cys Met Thr Gln Leu Phe Phe Phe Ile
 115         120         125
Val Leu Ile Cys Thr Glu Cys Thr Leu Leu Ala Ser Met Ala Tyr Asp
 130         135         140
Arg Tyr Val Ala Ile Cys Arg Pro Leu His Tyr Pro Leu Leu Met Arg
 145         150         155         160
Pro Gln Val Cys Leu Gly Leu Ala Leu Ser Ser Trp Leu Gly Gly Leu
 165         170         175
Ile Val Ser Val Ala Lys Thr Thr Cys Ile Ala Ser Leu Ser Tyr Cys
 180         185         190
Gly Pro Asn Val Leu Asn Gln Phe Phe Cys Asp Val Ser Pro Leu Leu
 195         200         205
Asn Leu Ser Cys Thr His Val Ala Leu Thr Glu Leu Val Asp Phe Ile
 210         215         220
Ser Ala Ile Val Ile Phe Cys Gly Thr Leu Leu Val Ser Leu Ala Ser
 225         230         235         240
Tyr Ser Ala Ile Gly Met Ala Val Leu Arg Met Pro Ser Ala Ala Ala
 245         250         255
Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Val Val Val Gly
 260         265         270
Ile Phe Tyr Ser Ala Ala Leu Phe Ile Tyr Cys Arg Pro Ser Arg Ile
 275         280         285
Lys Ser Met Asp Leu Asn Lys Val Leu Ser Val Ile Tyr Thr Val Val
 290         295         300
Thr Pro Leu Cys Asn Pro Ile Ile Tyr Cys Leu Arg Asn Lys Glu Val
 305         310         315         320
His Thr Val Leu Lys Lys Thr Leu His Trp
 325         330

```

&lt;210&gt; 2328

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M32 6691273-108-10257-11726 1388-432)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(319)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2328

```

Leu Val Pro Ser Phe Gln Arg His Thr Met Ala Asn Leu Ser Thr Val
1          5          10          15
Ser Val Phe Ile Leu Gln Gly Phe Ser Ala Val Pro Ala Leu Gln Leu
20          25          30
Leu Ser Met Ala Ile Phe Leu Leu Ile Tyr Leu Ala Ala Val Leu Gly
35          40          45
Asn Val Ser Ile Met Ile Ala Val Thr Leu Asp Ser His Leu His Thr
50          55          60
Pro Met Tyr Phe Phe Ile Lys His Leu Ser Leu Val Asp Leu Cys Ser
65          70          75          80
Thr Ser Thr Thr Leu Pro Arg Ala Leu Val Ala Thr Met Ala Asp Thr
85          90          95
Lys Glu Ile Ser Leu Pro Ala Cys Ala Ser Gln Leu Phe Ala Phe Val
100         105         110
Cys Phe Gly Ser Leu Glu Cys Phe Leu Ile Thr Ala Met Ala Phe Asp
115         120         125
Arg Cys Leu Ala Ile Tyr Arg Pro Leu Thr Tyr Gly Val Thr Met Ser
130         135         140
Ser Gln Thr Cys Val Ser Leu Val Val Val Ala Trp Val Ser Gly Leu
145         150         155         160
Leu Phe Ser Thr Phe His Met Val Asn Thr Phe Ser Leu Pro Phe Cys
165         170         175
Gly Pro Asn Met Ile Asp His Phe Phe Cys Asp Ile Pro Pro Leu Met
180         185         190
His Leu Ala Cys Gly Asp Thr Gln Gly His Glu Ala Ala Gly Phe Ile
195         200         205
Val Ser Gly Cys Val Ile Met Thr Cys Phe Ala Leu Thr Cys Leu Ser
210         215         220
Tyr Val Leu Ile Val Tyr Thr Val Val His Ile Arg Ser Ala Ala Gly
225         230         235         240
Arg Trp Lys Ala Phe Ser Thr Cys Ser Ser His Leu Ala Thr Val Leu
245         250         255
Leu Phe Tyr Gly Thr Gly Ser Ser Ala Tyr Met Gln Pro Thr Ala His
260         265         270
Tyr Ser Pro Leu Gln Gly Arg Met Ala Ala Ile Phe Tyr Ser Ile Leu
275         280         285
Met Pro Thr Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Met
290         295         300
Lys Ala Ala Leu Arg Lys Leu Tyr Pro Gln Val Pro Ser Xaa Ile
305         310         315

```

&lt;210&gt; 2329

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M33 6850399-12-3847-5066 800-1195)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(133)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2329

```

Thr Glu Leu Asn Ser Cys Leu Gln Trp Leu Pro Ile Leu His Arg Ser
1          5          10          15
Thr Thr Glu Ala Ser Ser Ala Val Leu Xaa Glu Leu Leu Leu Gln Arg
20          25          30
Pro Ala Ser Ala Leu Xaa Pro Pro Ile Gly Ser Ser Asp Leu Ala Gly
35          40          45
Cys Phe Ser Val Tyr Ile Leu Thr Leu Thr Asp Asn Thr Thr Val Arg

```

```

      50              55              60
Ile Asn Ser Phe Leu Asn His Lys Leu His Thr Pro Met Ser Ser Phe
65              70              75              80
Cys Phe Gly Leu Ser Ile Leu Asp Leu Cys Phe Thr Pro Ser Thr Val
      85              90              95
Pro Pro Asp His Gln Ile Leu Gly Asn Pro Xaa Gly Pro Glu Lys Leu
      100              105              110
Ala Ile Leu Val Xaa Ala Ile Gln Leu Ser Val Ala Leu Gly Phe Gly
      115              120              125
Ser Thr Val Cys Val
      130

```

&lt;210&gt; 2330

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M35 6850399-2-1-641 21-587)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(191)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2330

```

Asp Ala Ile Ser Gln Pro Leu His Tyr Gly Ala Ile Thr His Ser Glu
1              5              10              15
Ile Leu Trp Gln Leu Ala Thr Val Ala Gln Ile Ser Gly Phe Val Glu
      20              25              30
Phe Arg Ser Pro Ser Ile Phe Gln Leu Pro Arg Cys Gly Gly Gly Gly
      35              40              45
Val Val Cys Lys Ala Xaa Asn Tyr Leu Cys Arg His Asn Phe Pro Gly
      50              55              60
Lys Xaa Leu Ser Thr Val Thr Ala Leu Cys Val Val Thr Leu Met Gly
65              70              75              80
Leu Val Leu Val Ser Tyr Val Ser Ile Val Lys Gly Val Leu Arg Gly
      85              90              95
Gly Pro Ile Glu Asp Met Gly Lys Ala Phe Gly Thr Cys Gly Tyr His
      100              105              110
Leu Ile Ala Gly Leu Leu Phe Phe Lys Ala Ile Ile Ser Val Tyr Thr
      115              120              125
His Pro Arg Asn Glu Phe Thr Gly Ser His Gly Lys Pro Phe Leu Leu
      130              135              140
Leu Tyr Pro Val Val Met Pro Ser Leu Gly Pro Leu Ile Asp Thr Leu
145              150              155              160
Arg Ser Gln Glu Ser Ser Arg Val Ile Lys Arg Leu Val Ala Lys Asp
      165              170              175
Xaa Lys Leu Ser Arg Lys Asn Thr Xaa Cys Thr Ser Arg Ser Trp
      180              185              190

```

&lt;210&gt; 2331

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M36 7263202-1-54100-55962 166-1125)

&lt;400&gt; 2331

```

Ser Ser Gln Ala Pro Glu Lys Gln Gln Asp Asn Gly Thr Trp Leu Val
1              5              10              15
Thr Glu Phe Leu Leu Val Gly Phe Ser Asn Leu Pro Glu Leu Arg Pro
      20              25              30
Thr Leu Phe Ile Leu Phe Leu Leu Thr Tyr Leu Val Thr Leu Ser Gly
      35              40              45
Asn Ala Thr Ile Ile Thr Ile Ile Gln Val Asp Arg Thr Leu His Thr

```

```
<210> 2332
<211> 122
<212> PRT
<213> Mus musculus (M38 7340303-58-1-1344 4-367)
```

```
<220>  
<221> VARIANT  
<222> (1)...(122)  
<223> Xaa = Any Amino Acid
```

<400>	2332														
His	Leu	Ser	Glu	Glu	Val	Gly	Phe	Ala	Val	Ser	Ser	Cys	Ile	Val	Met
1				5					10					15	
Ser	Ser	Phe		Ala	Leu	Thr	Val	Val	Ser	Tyr	Ile	Gly	Ile	Val	Ala
			20					25						30	Thr
Val	Leu	Arg	Ile	Pro	Ser	Val	Glu	Gly	Arg	Trp	Lys	Ala	Phe	Ser	Thr
		35					40					45			
Cys	Ser	Ser	His	Leu	Thr	Thr	Val	Ile	Leu	Phe	Tyr	Gly	Thr	Gly	Ser
	50					55					60				
Phe	Val	Tyr	Leu	Arg	Pro	Ala	Ser	Gln	Tyr	Ser	Pro	Thr	Leu	Gly	Pro
65					70					75					80
Leu	Ala	Ser	Ile	Phe	Tyr	Ser	Val	Val	Thr	Pro	Ser	Leu	Asn	Pro	Val
			85						90					95	
Val	Tyr	Cys	Leu	Arg	Asn	Lys	Asp	Met	Lys	Phe	Ala	Leu	Gln	Lys	Leu
			100					105					110		
Tyr	Cys	Gly	Arg	Lys	Tyr	Xaa	Asp	Leu	Glu						
		115					120								

<210> 2333  
 <211> 356  
 <212> PRT  
 <213> Mus musculus (M41 7363372-318-7546-10891 3278-2211)

<220>  
 <221> VARIANT  
 <222> (1)...(356)  
 <223> Xaa = Any Amino Acid

<400> 2333

Tyr	Val	Phe	Phe	Cys	Phe	Gln	Tyr	Ser	Xaa	Glu	Trp	Lys	Thr	Glu	Leu
1				5					10					15	
Glu	Met	Asp	Val	Ser	Asn	Gln	Thr	Thr	Val	Thr	Glu	Phe	Val	Leu	Leu
			20					25					30		
Gly	Leu	Ser	Ala	His	Pro	Lys	Leu	Glu	Lys	Thr	Phe	Phe	Val	Leu	Ile
		35				40					45				
Leu	Ser	Met	Tyr	Leu	Val	Ile	Leu	Leu	Gly	Asn	Gly	Val	Leu	Ile	Leu
	50					55				60					
Val	Ser	Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
65				70					75					80	
Gly	Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Thr	Ser	Ser	Val	Pro
				85				90						95	
Leu	Val	Leu	Asp	Gly	Phe	Leu	Thr	Pro	Arg	Lys	Thr	Ile	Ser	Phe	Ser
			100					105					110		
Gly	Cys	Ala	Val	Gln	Met	Phe	Leu	Ser	Phe	Ala	Met	Gly	Ala	Thr	Glu
		115				120						125			
Cys	Val	Leu	Leu	Gly	Met	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		130				135					140				
Asn	Pro	Leu	Arg	Tyr	Pro	Val	Val	Met	Asn	Lys	Ala	Ala	Tyr	Val	Pro
145					150					155				160	
Met	Ala	Val	Ser	Ser	Trp	Val	Ala	Gly	Gly	Ala	Asn	Ser	Leu	Val	Gln
				165					170					175	
Ile	Ser	Leu	Ala	Val	Gln	Leu	Pro	Phe	Cys	Gly	Asp	Asn	Val	Ile	Asn
			180					185					190		
His	Phe	Ile	Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp
		195				200						205			
Ile	Ser	Ile	Asn	Val	Ile	Ser	Met	Gly	Val	Ala	Asn	Val	Ile	Phe	Leu
	210					215					220				
Gly	Val	Pro	Val	Leu	Phe	Ile	Phe	Val	Ser	Tyr	Ile	Phe	Ile	Leu	Ser
225					230					235				240	
Thr	Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser
				245					250					255	
Thr	Cys	Ser	Ala	His	Leu	Thr	Val	Val	Ile	Ile	Phe	Tyr	Gly	Thr	Ile
			260					265					270		
Leu	Phe	Met	Tyr	Gly	Lys	Pro	Lys	Ser	Lys	Asp	Pro	Leu	Gly	Ala	Asp
		275				280						285			
Lys	Gln	Asp	Leu	Ala	Asp	Lys	Leu	Ile	Ser	Leu	Phe	Tyr	Gly	Leu	Leu
	290					295					300				
Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val
305					310					315				320	
Lys	Ala	Ala	Val	Arg	Asn	Leu	Ala	Ser	His	Arg	Cys	Leu	Thr	Phe	Xaa
				325					330					335	
Trp	Arg	Asp	Arg	Ala	His	Asp	Pro	His	Val	Leu	Met	Ala	Leu	Thr	Xaa
			340					345					350		
Glu	Ser	Tyr	Cys												
			355												

<210> 2334  
 <211> 331

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M42 7363372-319-4901-8603 988-1980)

&lt;400&gt; 2334

```

Cys Pro Leu Leu Ser Gln Asp Gly Lys Arg Thr Cys Glu Met Glu Gly
 1           5           10           15
Ala Asn Gln Ser Thr Val Ala Glu Phe Val Leu Leu Gly Leu Ser Asp
          20           25           30
His Pro Lys Leu Glu Lys Thr Phe Phe Val Leu Ile Leu Met Tyr
      35           40           45
Leu Val Ile Leu Leu Gly Asn Gly Val Leu Ile Leu Val Ser Ile Leu
 50           55           60
Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Leu Ser
65           70           75           80
Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ser Ile Pro Leu Val Leu Asp
          85           90           95
Gly Phe Leu Thr Pro Arg Lys Thr Ile Ser Phe Ser Gly Cys Ala Val
          100          105          110
Gln Met Phe Leu Ser Phe Ala Met Gly Ala Thr Glu Cys Val Leu Leu
          115          120          125
Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg
130          135          140
Tyr Pro Val Val Met Asn Lys Ser Ala Tyr Val Pro Met Ala Val Ser
145          150          155          160
Ser Trp Val Ala Gly Gly Ala Asn Ser Leu Val Gln Ile Ser Leu Ala
          165          170          175
Val Gln Leu Pro Phe Cys Gly Asp Asn Val Ile Asn His Phe Thr Cys
          180          185          190
Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Ile Ser Ile Asn
          195          200          205
Val Ile Ser Met Gly Val Ala Asn Val Ile Phe Leu Gly Val Pro Val
210          215          220
Leu Phe Ile Phe Val Ser Tyr Ile Phe Ile Leu Ser Thr Ile Leu Arg
225          230          235          240
Ile Pro Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser Ala
          245          250          255
His Leu Thr Val Val Leu Val Phe Tyr Gly Thr Ile Leu Phe Met Tyr
          260          265          270
Gly Lys Pro Lys Ser Lys Asp Pro Leu Gly Ala Asp Lys Gln Asp Val
          275          280          285
Ser Asp Lys Leu Ile Ser Leu Phe Tyr Gly Val Leu Thr Pro Met Leu
290          295          300
Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Val
305          310          315          320
Arg Asn Leu Val Gly Gln Lys Cys Leu Ile Gln
          325          330

```

&lt;210&gt; 2335

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M43 7363372-320-18353-20567 840-1811)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(324)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2335

```

Asn Met Glu Arg Ser Asn Lys Thr Thr Pro Val Ser Ser Phe Ile Leu
 1           5           10           15
Leu Gly Leu Ser Ala His Pro Lys Leu Glu Lys Thr Phe Phe Val Leu

```

```
<210> 2336
<211> 257
<212> PRT
<213> Mus musculus (M44 7363372-320-22007-23346 51-820)
```

```
<220>
<221> VARIANT
<222> (1)...(257)
<223> Xaa = Any Amino Acid
```

<400> 2336															
Leu	Leu	Phe	Val	Val	Lys	Met	Lys	Arg	Leu	Gln	Thr	Cys	Xaa	Phe	Xaa
1				5					10					15	
Gln	Pro	Ala	Leu	Leu	Arg	Gly	Leu	Ser	Ser	Leu	Lys	Gly	Gln	Arg	Asp
			20					25					30		
Pro	Arg	Leu	Asn	Glu	Cys	Cys	Met	Pro	Leu	Leu	Xaa	Gln	Asp	Pro	Arg
		35					40					45			
Gly	Lys	Ala	Ser	Phe	Leu	Val	Cys	Leu	Val	Leu	Val	Thr	Leu	Ser	Cys
	50					55					60				
Met	Trp	Gln	Glu	Gln	Cys	Pro	Pro	Met	His	Val	Thr	Phe	Val	His	Ser
65					70					75					80



```

Leu Ala Val Arg Gln Leu Lys Val Ile Asn Ser Arg Ala Ala Cys Val
      85          90          95
Leu Arg Ser Ala Glu Leu Xaa Ala Thr Gly Ala Thr Tyr Pro Leu Ser
      100        105        110
Thr Asn Tyr Cys Ile Cys Lys Thr Arg Thr Ser Ala Arg Ala Asp Ile
      115        120        125
Ser Ile Asn Val Ile Ser Ile Gly Val Glu Leu Gly Val Pro Val Leu
      130        135        140
Phe Ile Phe Ile Ser Tyr Ile Phe Ile Leu Ser Thr Ile Leu Gly Ile
      145        150        155        160
Pro Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser Ala His
      165        170        175
Leu Thr Met Val Ile Ile Phe Tyr Gly Thr Ile Leu Phe Met Tyr Gly
      180        185        190
Lys Pro Lys Ser Lys Asp Pro Leu Gly Ala Asp Lys Gln Asp Leu Ala
      195        200        205
Asp Lys Leu Ile Ser Leu Phe Tyr Gly Val Val Thr Pro Met Leu Asn
      210        215        220
Leu Arg Thr Thr Val Arg Ala Phe Ile Phe Arg Lys Tyr Phe Ser Gln
      225        230        235        240
Xaa Trp Trp Gln Gly Met Leu Trp Thr Val Thr His Arg Thr Glu Lys
      245        250        255
Ile

```

&lt;210&gt; 2337

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M45 7363372-320-7359-9353 512-1474)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(321)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2337

```

Asp Ser Met Glu Ile Asn Asn Gln Thr Ser Phe Pro Val Ser Ser Phe
1          5          10          15
Ile Leu Leu Gly Leu Ser Ala His Pro Lys Leu Glu Lys Thr Phe Phe
      20          25          30
Met Leu Ile Leu Leu Met Tyr Leu Val Ile Leu Leu Gly Asn Gly Ile
      35          40          45
Leu Ile Leu Val Ser Ile Leu Asp Ser His Leu His Thr Pro Met Tyr
      50          55          60
Phe Phe Leu Gly Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser
      65          70          75          80
Ser Val Pro Leu Ile Leu Asp Ser Phe Leu Thr Pro Arg Lys Thr Ile
      85          90          95
Ser Phe Ser Gly Cys Ala Val Gln Met Phe Leu Ser Phe Ala Met Gly
      100        105        110
Ala Thr Glu Cys Val Leu Leu Ser Met Met Ala Phe Asp Arg Tyr Val
      115        120        125
Ala Ile Cys Asn Pro Leu Arg Tyr Pro Val Val Met Asn Lys Ala Ala
      130        135        140
Tyr Val Pro Met Ala Val Ser Ser Trp Ser Gly Gly Ile Ala Val Ser
      145        150        155        160
Val Val Gln Thr Ser Leu Ala Met Lys Leu Thr Phe Cys Gly Asp Asn
      165        170        175
Val Ile Asn His Phe Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala
      180        185        190
Cys Ala Asp Ile Ser Ile Asn Val Ile Ser Met Gly Val Thr Asn Ile

```

```

      195              200              205
Ile Phe Leu Gly Val Pro Val Leu Phe Ile Ser Phe Ser Tyr Val Phe
  210              215              220
Ile Leu Val Thr Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys
  225              230              235              240
Ala Phe Ser Thr Cys Ser Ala His Leu Thr Val Val Leu Val Phe Tyr
      245              250              255
Gly Thr Ile Leu Phe Met Tyr Gly Lys Pro Lys Ser Lys Asp Pro Leu
      260              265              270
Gly Ala Asp Lys Gln Asp Leu Ala Asp Xaa Leu Ile Ser Leu Phe Tyr
      275              280              285
Gly Val Leu Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn
      290              295              300
Lys Asp Val Arg Ala Ala Val Thr Asn Leu Val Val Leu Lys Lys Ser
  305              310              315              320
Phe

```

&lt;210&gt; 2338

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M50 8075174-14-7636-10544 2097-1198)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(300)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2338

```

Gln Asp Leu Val Ala Thr Gly Val Ile Gly Ala Val Leu Ser Thr Met
  1              5              10              15
Gly Val Val Gly Val Val Gly Asn Val Tyr Thr Leu Val Val Met Cys
      20              25              30
Arg Phe Leu Arg Ala Ser Ala Ser Met Tyr Val Tyr Val Val Asn Leu
      35              40              45
Ala Leu Ala Asp Leu Leu Tyr Leu Leu Ser Ile Pro Phe Ile Val Ala
      50              55              60
Thr Tyr Val Thr Lys Asp Trp His Phe Gly Asp Val Gly Cys Arg Val
      65              70              75              80
Leu Phe Ser Leu Asp Phe Leu Thr Met His Ala Ser Ile Phe Thr Leu
      85              90              95
Thr Ile Met Ser Ser Glu Arg Tyr Ala Ala Val Leu Arg Pro Leu Asp
      100              105              110
Thr Val Gln Arg Ser Lys Gly Tyr Arg Lys Leu Leu Ala Leu Gly Thr
      115              120              125
Cys Cys Trp His Cys Cys Xaa Pro Tyr Pro Xaa Cys Tyr Ala Ile Arg
      130              135              140
Leu Val Arg Arg Gly Ser Lys Ser Leu Cys Leu Pro Ala Trp Gly Pro
      145              150              155              160
Arg Ala His Arg Thr Tyr Leu Thr Leu Leu Phe Gly Thr Ser Ile Val
      165              170              175
Gly Pro Gly Leu Val Ile Gly Leu Leu Tyr Ile Arg Leu Ala Arg Ala
      180              185              190
Tyr Trp Leu Ser Gln Gln Ala Ser Phe Lys Gln Thr Arg Arg Leu Pro
      195              200              205
Asn Pro Arg Val Leu Tyr Leu Ile Leu Gly Ile Val Leu Leu Phe Trp
      210              215              220
Ala Cys Phe Leu Pro Phe Val Ala Met Ala Ala Gly Pro Val Pro
      225              230              235              240
Pro Gly His Ala Thr Asp Thr Arg Ala Ala Arg Ile Ile Asn Tyr Leu
      245              250              255

```

Thr Ala Cys Leu Thr Tyr Gly Asn Ser Cys Ile Asn Pro Phe Leu Tyr  
                   260                  265                  270  
 Thr Leu Leu Thr Lys Asn Tyr Arg Glu Tyr Leu Arg Gly Arg Gln Arg  
                   275                  280                  285  
 Ser Leu Gly Ser Ser Cys Arg Gly Pro Gly Ser Ala  
                   290                  295                  300

<210> 2339

<211> 340

<212> PRT

<213> Mus musculus (M51 8076974-22-383-3835 1573-554)

<220>

<221> VARIANT

<222> (1)...(340)

<223> Xaa = Any Amino Acid

<400> 2339

Cys Leu Phe Phe Pro Gln Arg Asn Leu Asp Ala Met Asn Arg Ser Ala  
   1                  5                  10                  15  
 Ala His Val Thr Glu Phe Val Leu Leu Gly Phe Pro Gly Ser Trp Lys  
                   20                  25                  30  
 Ile Gln Ile Phe Leu Phe Val Leu Phe Leu Val Phe Tyr Val Leu Thr  
                   35                  40                  45  
 Leu Leu Gly Asn Gly Ala Ile Ile Cys Ala Val Arg Cys Asp Ser Arg  
                   50                  55                  60  
 Leu His Thr Pro Met Tyr Phe Leu Leu Gly Asn Phe Ala Phe Leu Glu  
   65                  70                  75                  80  
 Ile Trp Tyr Val Ser Ser Thr Ile Pro Asn Ile Leu Ala Asn Ile Leu  
                   85                  90                  95  
 Ser Lys Thr Lys Ala Ile Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr  
                   100                  105                  110  
 Phe Phe Phe Ser Leu Gly Thr Thr Glu Cys Leu Phe Leu Ala Val Met  
                   115                  120                  125  
 Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg Pro Leu His Tyr Pro Thr  
                   130                  135                  140  
 Ile Met Thr Arg Arg Leu Cys Cys Ile Leu Val Ser Ser Cys Trp Leu  
   145                  150                  155                  160  
 Ile Gly Phe Leu Gly Tyr Pro Ile Pro Ile Phe Ser Ile Ser Gln Leu  
                   165                  170                  175  
 Pro Phe Cys Gly Ser Asn Ile Ile Asp His Phe Leu Cys Asp Met Asp  
                   180                  185                  190  
 Pro Leu Met Ala Leu Ser Cys Ala Pro Ala Pro Ile Thr Glu Phe Ile  
                   195                  200                  205  
 Phe Tyr Ala Gln Ser Ser Phe Val Leu Phe Phe Thr Ile Ala Tyr Ile  
                   210                  215                  220  
 Leu Arg Ser Tyr Ile Leu Leu Arg Ala Val Phe Gln Val Pro Ser  
   225                  230                  235                  240  
 Ala Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu Val  
                   245                  250                  255  
 Val Val Ser Leu Phe Tyr Gly Thr Val Met Val Met Tyr Val Ser Pro  
                   260                  265                  270  
 Thr Tyr Gly Ile Pro Ile Leu Met Gln Lys Ile Leu Thr Leu Val Tyr  
                   275                  280                  285  
 Ser Val Met Thr Pro Leu Phe Asn Pro Leu Ile Tyr Ser Leu Arg Asn  
                   290                  295                  300  
 Lys Asp Met Lys Leu Ala Leu Arg Asn Val Leu Leu Gly Met Arg Ile  
   305                  310                  315                  320  
 Val Lys Asn Met Xaa Val Lys Ala Val Ser Tyr Ser His Val Leu Ile  
                   325                  330                  335  
 Lys Asn Lys Leu

340

&lt;210&gt; 2340

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M57 8218295-1-14626-16881 1501-527)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(325)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2340

Cys	Pro	Phe	Leu	Xaa	Val	Met	Ser	Asn	Gln	Thr	Ser	Val	Thr	Glu	Phe
1				5					10					15	
Leu	Leu	Leu	Gly	Val	Thr	Asp	Ile	Gln	Glu	Leu	Asn	Pro	Ile	Leu	Phe
			20					25				30			
Val	Ile	Phe	Phe	Thr	Ile	Tyr	Phe	Val	Asn	Ile	Thr	Gly	Asn	Gly	Ala
		35					40					45			
Ile	Leu	Met	Ile	Val	Ile	Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Gly	Asn	Leu	Ala	Cys	Leu	Asp	Ile	Cys	Phe	Ser	Thr	Val
65				70					75						80
Thr	Leu	Pro	Lys	Met	Leu	Gln	Asn	Leu	Leu	Ser	Thr	Asn	Lys	Ala	Ile
			85						90					95	
Ser	Phe	Leu	Gly	Cys	Ile	Thr	Gln	Leu	His	Phe	Phe	His	Phe	Leu	Gly
			100					105					110		
Ser	Thr	Glu	Ala	Met	Leu	Leu	Pro	Val	Met	Ala	Phe	Asp	Arg	Phe	Val
		115					120					125			
Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Ser	Val	Ile	Met	Asn	His	Gln	Leu
		130				135					140				
Cys	Ile	His	Met	Thr	Val	Thr	Ile	Trp	Thr	Leu	Gly	Phe	Phe	His	Ala
145					150					155					160
Leu	Leu	His	Ser	Val	Met	Thr	Ser	Arg	Leu	Ser	Phe	Cys	Gly	Pro	Asn
				165					170					175	
His	Val	His	His	Phe	Phe	Cys	Asp	Ile	Lys	Pro	Leu	Leu	Asp	Leu	Ala
			180					185					190		
Cys	Gly	Asn	Thr	Glu	Leu	Asn	Leu	Trp	Leu	Leu	Asn	Thr	Val	Thr	Gly
		195					200					205			
Thr	Ile	Ala	Leu	Thr	Pro	Phe	Phe	Leu	Thr	Phe	Leu	Ser	Tyr	Phe	Tyr
		210				215					220				
Ile	Ile	Thr	Tyr	Leu	Phe	Leu	Lys	Thr	Arg	Ser	Cys	Ser	Met	Leu	His
225				230						235					240
Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser	His	Phe	Met	Val	Val	Ile	Leu	Leu
				245					250					255	
Tyr	Val	Pro	Val	Leu	Phe	Thr	Tyr	Ile	Arg	Pro	Ala	Ser	Gly	Ser	Ser
			260					265					270		
Leu	Asp	Gln	Asp	Arg	Ile	Ile	Ala	Ile	Met	Tyr	Ser	Val	Val	Thr	Pro
		275					280					285			
Ala	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Arg	Ser
		290				295					300				
Ala	Leu	Asn	Arg	Lys	Val	Arg	Arg	Trp	Leu	Xaa	Phe	Glu	Glu	Ile	Xaa
305				310						315					320
Ile	Thr	Leu	Leu	Trp											
				325											

&lt;210&gt; 2341

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M63 8218295-1-78460-79066 2-526)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(177)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2341

Val	Ser	Ala	His	Val	Cys	Met	Gly	Cys	Xaa	Leu	Ser	Trp	Pro	Val	Arg
1				5					10					15	
Cys	Glu	Ile	Ile	Phe	Gly	Val	Met	His	Thr	Thr	Val	Asn	Phe	Ser	Ile
			20					25					30		
Val	Leu	Cys	Gly	Thr	Ser	Val	Ile	His	Xaa	Phe	Cys	Asp	Val	Leu	Leu
		35					40					45			
Val	Leu	Lys	Leu	Ser	Cys	Leu	Tyr	Asp	His	Val	Ser	Glu	Ile	Ala	Ile
	50					55					60				
Ser	Asp	Phe	Ser	Ile	Ser	Leu	Ala	Phe	Phe	Cys	Phe	Ile	Ser	Pro	Asn
65					70					75				80	
Phe	Thr	Tyr	Val	His	Ile	Phe	Ser	Thr	Glu	Leu	Arg	Met	Pro	Phe	Val
				85					90					95	
Glu	Gly	Lys	Thr	Ser	Val	Phe	Ser	Thr	Cys	Leu	Cys	His	Met	Thr	Ser
			100					105					110		
Ile	Leu	Phe	Ile	Pro	Thr	Gly	Ile	Phe	Glu	Phe	Leu	Arg	Ser	His	Thr
		115					120					125			
Glu	Ser	Ser	Thr	Ser	Leu	Asp	Phe	Ile	Leu	Asn	Phe	Ser	Tyr	Phe	Ser
	130					135					140				
Leu	Ser	Thr	Leu	Asn	Pro	Gly	Ile	Tyr	Ser	Leu	Arg	Asn	Glu	Ala	Val
145					150					155				160	
Asp	Thr	Val	Gln	Arg	Lys	Ile	Phe	Phe	Phe	Lys	Glu	Lys	Tyr	Leu	Phe
				165					170					175	

Leu

&lt;210&gt; 2342

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M65 8218295-1-89089-90071 35-969)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(314)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2342

Ser	Leu	Phe	Tyr	Ser	Gln	Arg	Ser	Arg	Met	Asn	Val	Ala	Asn	Phe	Thr
1				5					10					15	
Ala	Met	Thr	Ile	Phe	Leu	Leu	Leu	Met	Gly	Phe	Ser	Arg	Asn	Ser	Gln
			20					25					30		
Val	Glu	Ile	Ile	Phe	Ser	Thr	Leu	Ala	Leu	Val	Val	Leu	Ile	Gly	Thr
	35						40					45			
Ile	Ser	Ile	Val	Ala	Val	Thr	Ser	Leu	Ser	Ile	Arg	Leu	Cys	Ser	Leu
	50					55					60				
Met	Pro	Phe	Leu	Leu	Ile	His	Leu	Phe	Cys	Phe	Asp	Val	Cys	Tyr	Ile
65					70					75				80	
Ser	Val	Met	Met	Pro	Lys	Ser	Val	Cys	Ser	Ser	Phe	Met	Tyr	Ser	Ala
				85					90					95	
Tyr	Ile	Ser	Leu	Ile	Glu	Cys	Thr	Leu	Gln	Val	Phe	Tyr	Ser	Gln	Ser
			100					105					110		
Ser	Tyr	Thr	Ala	Met	Ala	Ile	Leu	Thr	Val	Met	Ser	Tyr	Asp	Cys	Tyr
	115						120					125			
Met	Ala	Val	Trp	His	Lys	Val	Ile	Thr	Asn	Val	Ser	Thr	Cys	Ile	His
	130					135					140				
Gly	Val	Leu	Ala	Val	Leu	Val	Asn	Gly	Cys	Glu	Ile	Ile	Phe	Gly	Val

```

145          150          155          160
Met His Thr Thr Leu Thr Phe Ser Ile Tyr Ile Cys Gly Thr Ser Thr
          165          170          175
Ile Arg Xaa Phe Cys Asp Val Leu Leu Val Leu Lys Leu Ser Phe Thr
          180          185          190
Asn Asp His Val Asn Glu Leu Glu Ser Leu Ala Phe Ser Ser Val Glu
          195          200          205
Gly Arg Thr Lys Ser Phe Ser Thr Cys Leu Gly His Val Ser Val Gly
          210          215          220
Ser Leu Phe Asn Pro Pro Gly Val Phe Glu Phe Leu Asn Pro Tyr Ser
225          230          235          240
Glu Ser Pro Thr Ser Leu Asp Ile Ile Val Thr Val Phe Ile Leu Pro
          245          250          255
Gln Thr Leu Ser Val Glu Ile Tyr Ser Leu Ser Asn Glu Ala Ile Asp
          260          265          270
Thr Ala Xaa Arg Lys Phe Phe Phe Gln Arg Lys Thr Ser Leu Ser Ile
          275          280          285
Leu His Tyr Phe Leu Leu Gly Ser His Ile Xaa Xaa Val Leu Arg Lys
          290          295          300
Thr Thr Val Ser Met Asn Gln Leu Lys Leu
305          310

```

&lt;210&gt; 2343

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M70 8439670-95-9581-11872 695-1697)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(335)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2343

```

His Asp His Pro Ser Ala Glu Val Gly Gly Ala Met Ala Asn Ser Thr
1          5          10          15
Thr Val Thr Glu Phe Ile Leu Leu Gly Leu Ser Asp Ala Cys Glu Leu
          20          25          30
Gln Val Leu Ile Phe Leu Gly Phe Leu Leu Thr Tyr Phe Leu Ile Leu
          35          40          45
Leu Gly Asn Phe Leu Ile Ile Phe Ile Thr Leu Val Asp Arg Arg Leu
          50          55          60
Tyr Thr Pro Met Tyr Tyr Phe Leu Arg Asn Phe Ala Met Leu Glu Ile
65          70          75          80
Trp Phe Thr Ser Val Ile Phe Pro Lys Met Leu Thr Asn Ile Ile Thr
          85          90          95
Gly His Lys Thr Ile Ser Leu Leu Gly Cys Phe Leu Gln Ala Phe Leu
          100          105          110
Tyr Phe Phe Leu Gly Thr Thr Glu Phe Phe Leu Leu Ala Val Met Ser
          115          120          125
Phe Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg Tyr Ala Thr Ile
          130          135          140
Met Ser Lys Arg Val Cys Val Gln Leu Val Phe Cys Ser Trp Met Ser
145          150          155          160
Gly Leu Leu Leu Ile Ile Val Pro Ser Ser Ile Val Phe Gln Gln Pro
          165          170          175
Phe Cys Gly Pro Asn Ile Ile Asn His Phe Phe Cys Asp Asn Phe Pro
          180          185          190
Leu Met Glu Leu Ile Cys Ala Asp Thr Ser Leu Val Glu Phe Leu Gly
          195          200          205
Phe Val Ile Ala Asn Phe Ser Leu Leu Gly Thr Leu Ala Val Thr Ala
210          215          220

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Thr Cys Tyr Gly His Ile Leu Tyr Thr Ile Leu His Ile Pro Ser Ala  
 225 230 235 240  
 Lys Glu Arg Lys Lys Ala Phe Ser Thr Cys Ser Ser His Ile Ile Val  
 245 250 255  
 Val Ser Leu Phe Tyr Gly Ser Cys Ile Phe Met Tyr Val Arg Ser Gly  
 260 265 270  
 Lys Asn Gly Gln Gly Glu Asp His Asn Lys Val Val Ala Leu Leu Asn  
 275 280 285  
 Thr Val Val Thr Pro Thr Leu Asn Pro Phe Ile Tyr Thr Leu Arg Asn  
 290 295 300  
 Lys Gln Val Lys Gln Val Phe Arg Glu His Val Ser Lys Phe Gln Lys  
 305 310 315 320  
 Phe Ser Gln Thr Xaa Arg Lys Ala Pro Leu Gln Thr Cys Leu Thr  
 325 330 335

&lt;210&gt; 2344

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M71 8439670-97-10488-11856 213-627)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(139)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2344

Ser Ile Val Cys Ser Leu Ser Leu Ser Phe Phe Leu Ser Phe Phe Leu  
 1 5 10 15  
 Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Ser Leu  
 20 25 30  
 Ser Leu Ser Leu Ser Leu Ser Leu Ser Phe Phe Leu Ser Phe Phe Leu  
 35 40 45  
 Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Leu Pro Thr Phe Pro Pro  
 50 55 60  
 Ser Leu Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu  
 65 70 75 80  
 Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu  
 85 90 95  
 Ser Phe Phe Leu Ser Ser Leu Ser Phe Leu Ser Phe Tyr Ile Tyr Xaa  
 100 105 110  
 Trp Leu Val Cys Gly Pro Leu Pro Ser Xaa Gly Thr Val Gly Lys Gln  
 115 120 125  
 Ser Cys Val Met Met Leu Ile Cys Ser Trp Leu  
 130 135

&lt;210&gt; 2345

&lt;211&gt; 331

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M72 8439916-11-1-1677 434-1425)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(331)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2345

Phe Leu Leu Ala Trp Val His Arg Phe Leu Xaa Arg Arg Met Gly Phe  
 1 5 10 15  
 Glu Asn Gly Ser Ser Val Thr Glu Phe Ile Leu Val Gly Leu Thr Lys  
 20 25 30  
 Glu Ser Asp Leu Gln Cys Pro Leu Phe Ile Leu Phe Leu Met Met Tyr

35	40	45
Val Val Thr Val Leu Gly Asn Gln Gly Leu Ile Ser Leu Ile Gly Leu		
50	55	60
Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn Leu Ser		
65	70	75
Phe Val Asp Leu Trp Tyr Ser Ser Val Phe Thr Pro Lys Met Leu Glu		
85	90	95
Ser Phe Ile Ser Glu Lys Asn Thr Ile Ser Tyr Arg Gly Cys Met Ala		
100	105	110
Gln Leu Phe Phe Cys Phe Phe Ser Ile Ser Glu Cys Tyr Ile Leu		
115	120	125
Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Leu		
130	135	140
Tyr Asn Ile Val Met Ser Pro Lys Gln Cys Leu Ile Leu Met Phe Ser		
145	150	155
Ser Tyr Met Met Ala Phe Ser Gly Ala Met Ala His Thr Gly Cys Met		
165	170	175
Leu Arg Leu Thr Phe Cys Asp Ala Asn Thr Ile Asn His Tyr Phe Cys		
180	185	190
Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr Tyr Val Asn		
195	200	205
Glu Leu Glu Val Phe Val Val Val Gly Ile Asn Ile Ile Val Pro Thr		
210	215	220
Ile Thr Ile Phe Ile Ser Tyr Gly Phe Ile Ile Ala Ser Ile Phe Arg		
225	230	235
Ile Ser Ser Lys Glu Asp Arg Ser Lys Ala Phe Ser Thr Cys Ser Ser		
245	250	255
His Ile Ile Ala Val Ser Leu Phe Phe Gly Ser Gly Ala Phe Met Tyr		
260	265	270
Leu Lys Pro Ser Ser Ala Glu Ser Met Asn Glu Gly Lys Ile Ser Ser		
275	280	285
Ile Phe Tyr Thr Asn Thr Val Pro Leu Leu Asn Pro Leu Ile Tyr Ser		
290	295	300
Leu Arg Asn Lys Asp Val Lys Asp Ala Leu Ile Lys Thr Leu Ser Lys		
305	310	315
Arg Lys Arg Xaa Asn Glu Pro Ser Val Leu Pro		
325	330	

&lt;210&gt; 2346

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M73 8439916-12-562-4356 2317-1320)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(333) -

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2346

Ile Ser Leu Ile Ser Phe Ile Ser Thr Asp Ser Thr Xaa Arg Arg Met	
1	15
Val Val Thr Asn Gly Ser Leu Val Thr Glu Phe Ile Leu Leu Gly Leu	
20	30
Thr Asp Asn Pro Asp Leu Gln Ile Pro Leu Phe Leu Val Phe Leu Val	
35	45
Met Tyr Met Ile Thr Ala Phe Gly Asn Leu Thr Leu Ile Leu Leu Thr	
50	60
Val Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn	
65	80
Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Val Thr Pro Lys Leu	
85	95



Leu Met Asn Phe Val Leu Lys Lys Asn Ile Ile Gly Phe Ala Gly Cys  
 100 105 110  
 Met Thr Gln Leu Tyr Phe Phe Cys Phe Phe Val Ile Ser Glu Cys Tyr  
 115 120 125  
 Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro  
 130 135 140  
 Leu Met Tyr Asn Val Thr Met Ser Pro Lys Val Cys Ser Tyr Leu Met  
 145 150 155 160  
 Leu Gly Ser Tyr Leu Met Gly Phe Ser Asp Ala Met Ile His Thr Gly  
 165 170 175  
 Cys Ile Leu Arg Leu Thr Phe Cys Asp Gly Asn Thr Ile Asn His Tyr  
 180 185 190  
 Phe Cys Asp Leu Leu Pro Leu Met Gln Leu Ser Cys Thr Ser Thr Tyr  
 195 200 205  
 Ile Asn Glu Val Glu Ile Phe Ile Val Gly Gly Lys Asp Ile Thr Val  
 210 215 220  
 Pro Ser Ile Val Ile Ile Ser Tyr Gly Phe Ile Leu Ser Asn Ile  
 225 230 235 240  
 Leu Gln Ile Lys Ser Thr Gly Gly Arg Ser Lys Ala Phe Asn Thr Cys  
 245 250 255  
 Ser Ser His Ile Ile Ala Val Ser Leu Phe Phe Gly Ser Cys Ala Phe  
 260 265 270  
 Met Tyr Leu Lys Pro Pro Ser Ala Gly Ser Leu Asn Glu Gly Lys Val  
 275 280 285  
 Ser Ser Val Phe Tyr Thr Ile Val Val Pro Met Met Asn Pro Leu Ile  
 290 295 300  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Leu Ala Leu Arg Lys Thr Leu  
 305 310 315 320  
 Ser Arg Arg Lys Phe Xaa Xaa Xaa Ile Tyr Tyr Leu Cys  
 325 330

&lt;210&gt; 2347

&lt;211&gt; 343

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M74 8439916-15-1-3070 860-1887)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(343)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2347

Phe Ser Phe Ile Phe Phe Val Ser Thr Asp Ser Leu Arg Glu Asp Met  
 1 5 10 15  
 Thr Phe Glu Asn Ala Ser Met Val Ile Glu Phe Ile Leu Leu Gly Ile  
 20 25 30  
 Thr Asp Gln Pro Asp Leu Lys Ile Pro Phe Phe Leu Leu Phe Phe Val  
 35 40 45  
 Gly Tyr Met Ile Thr Val Leu Gly Asn Leu Thr Leu Ile Ile Leu Ile  
 50 55 60  
 Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Phe Asn  
 65 70 75 80  
 Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys Met  
 85 90 95  
 Leu Met Ser Phe Ile Gln Lys Lys Asn Ile Ile Ser Tyr Thr Gly Cys  
 100 105 110  
 Met Ile Gln Leu Tyr Phe Phe Cys Phe Phe Val Ile Ser Glu Cys Tyr  
 115 120 125  
 Val Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro  
 130 135 140  
 Leu Leu Tyr Asn Val Thr Leu Ser Ser Lys Val Cys Cys Tyr Leu Met

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145          150          155          160
Leu Gly Ser Tyr Phe Met Gly Phe Ser Gly Ala Met Ile His Thr Gly
165          170          175
Cys Ile Leu Arg Leu Thr Phe Cys Asp Gly Asn Thr Ile Asn His Tyr
180          185          190
Phe Cys Asp Leu Leu Pro Leu Leu Gln Ile Ser Cys Thr Ser Thr Tyr
195          200          205
Ile Asn Glu Ile Glu Leu Phe Ile Val Ala Gly Lys Asp Ile Ile Val
210          215          220
Pro Thr Ile Ile Ile Phe Ile Ser Tyr Gly Phe Ile Leu Phe Ser Val
225          230          235          240
Leu Lys Ile Lys Ser Thr Glu Ser Arg Ser Lys Ala Phe Ser Thr Cys
245          250          255
Ser Ser His Met Leu Ala Val Ser Leu Phe Phe Gly Ser Gly Ala Phe
260          265          270
Met Tyr Leu Lys Pro Thr Ser Ala Leu Ser Ile Asn Lys Gly Lys Phe
275          280          285
Ser Ser Leu Phe Tyr Thr Ile Val Val Pro Met Met Asn Pro Leu Ile
290          295          300
Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu Arg Lys Thr Leu
305          310          315          320
Asn Arg Arg Ile Phe Ser Ser Xaa Thr Gly Tyr Leu Xaa Ala Tyr Thr
325          330          335
Xaa Thr Ile Glu Arg Leu Cys
340

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&lt;210&gt; 2348

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M75 8439916-16-717-3690 2556-1594)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(321)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2348

```

Lys Lys Met Ala Ser Ala Asn Val Ser Leu Val Thr Glu Phe Ile Leu
1      5      10      15
Val Gly Leu Thr Asn Gln Pro Asp Leu Gln Ile Pro Leu Phe Phe Val
20     25     30
Phe Leu Ile Met Tyr Ile Val Thr Ala Leu Gly Asn Leu Cys Leu Ile
35     40     45
Ile Leu Ile Val Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe
50     55     60
Leu Phe Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Thr Val Phe Thr
65     70     75     80
Pro Lys Met Leu Met Asn Phe Ile Leu Ser Lys Asn Ala Ile Ser Tyr
85     90     95
Met Gly Cys Leu Thr Gln Leu Tyr Phe Phe Cys Phe Phe Val Ile Ser
100    105    110
Glu Cys Tyr Val Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile
115    120    125
Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Pro Lys Leu Cys Leu
130    135    140
Asn Leu Met Leu Gly Thr Tyr Ala Met Ala Phe Ser Gly Ala Met Ala
145    150    155    160
His Thr Gly Cys Met Leu Arg Leu Thr Phe Cys Asp Ala Asn Thr Ile
165    170    175
Asn His Tyr Phe Cys Asp Ile Leu Pro Val Met Gln Leu Ser Cys Thr
180    185    190

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Ser Thr Tyr Val Asn Glu Leu Val Val Phe Ile Val Val Gly Ile Asn
  195                200                205
Ile Ile Val Pro Ser Ile Thr Ile Phe Ile Ser Tyr Gly Phe Ile Leu
  210                215                220
Ser Ser Ile Phe His Ile Lys Ser Asn Glu Gly Arg Ser Lys Ala Phe
  225                230                235                240
Ser Thr Cys Ser Ser His Ile Ile Ala Val Cys Leu Phe Phe Gly Ser
                245                250                255
Gly Ala Phe Met Tyr Leu Lys Pro Ser Ser Ser Ser Met Asp Gln
                260                265                270
Gly Lys Thr Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Met Asn
                275                280                285
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ile Ala Leu Arg
  290                295                300
Lys Thr Leu Ser Arg Trp Lys Phe Xaa Lys Glu Thr Thr Cys Thr Cys
  305                310                315                320
Leu

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&lt;210&gt; 2349

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M76 8439916-16-8665-10443 1774-1125)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(217)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2349

```

Phe Leu Thr Phe Leu Pro Leu Leu Pro Phe Leu Ser Phe Phe Leu Ser
  1          5          10          15
Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Ser Glu Cys
                20          25          30
Cys Val Leu Thr Ser Met Ala Tyr Asp Ser Ile Cys Asn Pro Leu Leu
  35          40          45
Tyr Asn Leu Phe Met Ser Pro Lys Xaa Cys Leu Asn Leu Ile Leu Gly
  50          55          60
Ser Phe Phe Ile Ser Phe Ser Asp Ala Val Ala His Ser Thr Cys Arg
  65          70          75          80
Leu Lys Leu Thr Phe Cys Asp Cys Asp Ile Pro Pro Leu Leu Gln Leu
                85          90          95
Cys Cys Thr Ser Thr Tyr Val Asn Glu Leu Val Ile Phe Phe Val Val
                100          105          110
Gly Cys Ile Asn Ile Ile Val Pro Ser Ser Thr Ile Leu Ile Ser Tyr
                115          120          125
Asp Phe Ile Leu Ser Ser Met Phe Cys Ile Lys Ser Ser Glu Gly Arg
  130          135          140
Ser Lys Ala Phe Ser Thr Tyr Ser Ser His Val Ile Ser Leu Ser Leu
  145          150          155          160
Phe Phe Asp Ser Ser Ala Phe Val Tyr Phe Lys Ser Ser Ser Ala Gly
                165          170          175
Ser Leu Gly Glu Glu Asn Ile Ser Ser Val Phe Tyr Ser Asn Val Val
                180          185          190
Leu Ile Val Asn Pro Leu Leu Tyr Ser Leu Arg Asn Lys Asp Ser Leu
  195          200          205
Arg Lys Thr Leu Thr Arg Lys Asn Phe
  210          215

```

&lt;210&gt; 2350

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M77 8439916-17-1-2001 619-1618)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(333)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2350

```

Ile Ile Leu Xaa Tyr Asn Ser Phe Phe Leu Ser Leu Xaa Ile Pro Leu
 1           5           10           15
Lys Arg Met Asp Ser Val Asn Val Ser Leu Val Thr Glu Phe Leu Leu
          20          25          30
Val Gly Leu Thr His Gln Pro Asp Arg Gln Ile Pro Leu Phe Leu Leu
          35          40          45
Phe Leu Ala Met Tyr Leu Val Thr Ala Leu Gly Asn Leu Gly Leu Ile
          50          55          60
Ile Leu Val Leu Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe
65          70          75          80
Leu Phe Asn Leu Ser Phe Ile Asp Phe Cys Tyr Ser Ser Val Phe Thr
          85          90          95
Pro Lys Met Leu Met Asn Phe Ile Leu Arg Gln Asn Ala Ile Ser Tyr
          100         105         110
Met Gln Cys Met Thr Gln Leu Tyr Phe Phe Cys Phe Phe Val Val Ser
          115         120         125
Glu Cys Phe Val Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile
          130         135         140
Cys Asn Pro Leu Leu Tyr Asn Val Met Ile Ser Pro Gln Val Cys Leu
145         150         155         160
Asn Leu Met Ile Gly Ser Tyr Leu Met Ala Phe Ser Glu Ala Val Ala
          165         170         175
Leu Thr Val Cys Met Leu Thr Leu Thr Phe Cys Asp Gly Asn Ile Asn
          180         185         190
His Tyr Phe Cys Asp Ile Leu Ala Leu Phe Gln Leu Ser Cys Ser Ser
          195         200         205
Thr Tyr Val Asn Lys Leu Val Ala Tyr Val Ile Val Val Ile Asn Ile
210         215         220
Leu Phe Ser Thr Pro Thr Ile Phe Ile Ser Tyr Gly Phe Ile Leu Ser
225         230         235         240
Ser Ile Phe Arg Ile Ser Ser Ser Lys Gly Arg Ser Lys Ala Phe Ser
          245         250         255
Thr Cys Ser Ser His Ile Ile Ala Val Ser Leu Phe Phe Gly Ser Gly
          260         265         270
Ala Phe Val Tyr Phe Lys Pro Ser Ser Pro Gly Ser Met Glu Trp Ala
          275         280         285
Lys Ile Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Met Asn Pro
290         295         300
Leu Ile Tyr Ser Leu Lys Asn Lys Asp Val Lys Ile Ala Leu Arg Lys
305         310         315         320
Ser Leu Ala Arg Xaa Arg Phe Asp Trp Ile His Met Tyr
          325         330

```

&lt;210&gt; 2351

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M78 8439916-17-6970-9135 1261-2156)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(299)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2351

```

Thr Asp Ser Pro Xaa Arg Arg Met Asp Xaa Val Asn Ile Ser Leu Val
 1           5           10           15
Thr Glu Phe Ile Val Val Gly Xaa Ala Glu Gln Pro Asp Leu Gln Ile
          20           25           30
Pro Met Phe Phe Gly Phe Leu Ala Met Tyr Thr Val Thr Ala Leu Glu
          35           40           45
Asn Leu Phe Leu Ile Ile Leu Thr Val Leu Asn Ser His Val His Thr
          50           55           60
Thr Met Tyr Tyr Phe Leu Phe Asn Leu Ser Phe Val Val Leu Cys Tyr
65           70           75           80
Ser Ser Val Phe Thr Pro Gln Met Leu Met Asn Phe Ile Ile Arg Lys
          85           90           95
Asn Thr Ile Ser Tyr Met Glu Cys Ile Thr Xaa Leu Phe Phe Leu Ser
          100          105          110
Phe Phe Leu Ile Phe Leu Cys Phe Phe Leu Ser Ser Phe Phe Leu Ser
          115          120          125
Phe Phe Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe
          130          135          140
Phe Leu Ser Ser Phe Leu Pro Ser Leu Leu Pro Ser Phe Leu Ser Phe
145          150          155          160
Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Ser Leu Ser Phe
          165          170          175
Leu Ser Ala Ala Tyr Xaa Leu Gln Cys Ala Met Ile Ser Ile Cys Asn
          180          185          190
Ser Leu Val Tyr Asn Leu Phe Met Arg Pro Xaa Val Leu Ser Glu Pro
          195          200          205
Tyr Ser Trp Val Ile Leu Xaa Phe Ile Tyr Xaa Cys Val Asn Thr Leu
          210          215          220
Ser Ser Gly Ile Glu Thr Asp Thr Val Arg Arg Glu Thr Ser Cys Leu
225          230          235          240
Arg Val Arg Pro Ala Ala Pro Gly His Met Ser Val Ser Leu Glu Phe
          245          250          255
Phe Phe Cys Ser Gly Arg Val Tyr Leu Trp Gly Leu Pro Gln Thr Glu
          260          265          270
Leu Ile Pro Tyr Ala Xaa Leu Pro Val Gln Arg Pro Pro Val Leu Glu
          275          280          285
Glu Ser Leu Glu Gly Arg Arg Ala Arg Asn Val
          290          295

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&lt;210&gt; 2352

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M80 8439916-20-13750-16634 2033-1016)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(339)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2352

```

Cys His Ser Phe Phe Leu Leu Leu Ile His Arg Leu Phe Xaa Arg Arg
 1           5           10           15
Met Gly Val Glu Asn Gly Ser Leu Val Thr Glu Phe Ile Leu Gln Gly
          20           25           30
Leu Thr Ser Asp Pro Asp Leu Gln Leu Pro Leu Phe Leu Phe Leu
          35           40           45
Leu Ile Tyr Thr Thr Thr Ala Leu Gly Asn Leu Ser Leu Ile Thr Leu
          50           55           60
Ile Ala Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Leu

```

65					70					75				80
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro Lys
				85					90					95
Met	Leu	Met	Asn	Phe	Leu	Val	Ser	Lys	Asn	Phe	Ile	Ser	Tyr	Val Gly
			100					105					110	
Cys	Met	Thr	Gln	Leu	Tyr	Leu	Phe	Val	Phe	Phe	Ala	Val	Ser	Glu Cys
		115					120					125		
Cys	Val	Leu	Ser	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys Asn
	130					135					140			
Pro	Leu	Leu	Tyr	Asn	Ile	Ala	Met	Ser	Pro	Gln	Val	Cys	Ser	Tyr Leu
145					150					155				160
Met	Leu	Gly	Ser	Tyr	Ile	Met	Gly	Phe	Ser	Gly	Ala	Met	Ile	His Thr
			165					170					175	
Gly	Trp	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Arg	Ser	Ile	Ile	Asn His
		180						185					190	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Gln	Leu	Ser	Cys	Thr	Asn	Thr
	195					200					205			
Tyr	Ala	Asn	Glu	Ile	Glu	Ile	Ile	Ile	Val	Gly	Gly	Ile	Asp	Ile Ile
	210				215					220				
Val	Pro	Ser	Ile	Ile	Ile	Phe	Thr	Ser	Tyr	Gly	Phe	Val	Leu	Ser Asn
225					230					235				240
Ile	Phe	Gln	Met	Arg	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser Thr
			245					250						255
Cys	Ser	Ser	His	Ile	Val	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Gly Ala
		260						265				270		
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Pro	Glu	Ser	Met	Asp	Gln	Gly Lys
	275					280					285			
Arg	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Leu	Val	Pro	Met	Met	Asn	Pro Leu
	290					295				300				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Lys	Lys Thr
305				310				315						320
Phe	Ser	Thr	Gln	Ser	Val	Xaa	Xaa	Glu	Ile	Asn	Val	Tyr	His	Tyr Thr
			325					330					335	

Tyr Ala Asn

&lt;210&gt; 2353

&lt;211&gt; 336

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M82 8439916-21-1-3132 1296-290)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(336)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2353

Asn	Phe	Ile	Phe	Phe	Leu	Pro	Ile	Asp	Ser	Leu	Arg	Glu	Asp	Met	Ala
1				5				10						15	
Leu	Glu	Asn	Ala	Ser	Leu	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly	Leu	Thr
		20					25						30		
Asn	Arg	Pro	Asp	Leu	Gln	Ile	Pro	Leu	Phe	Leu	Leu	Phe	Leu	Val	Met
	35					40						45			
Tyr	Val	Ile	Ala	Thr	Leu	Gly	Asn	Leu	Ala	Leu	Ile	Met	Leu	Ile	Ile
	50					55					60				
Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Leu	Asn	Leu
65				70					75					80	
Ser	Cys	Ile	Asp	Leu	Phe	Tyr	Cys	Ser	Val	Ile	Thr	Pro	Lys	Met	Leu
			85					90						95	
Met	Asn	Phe	Val	Leu	Lys	Lys	Asn	Val	Ile	Ser	Tyr	Glu	Gly	Cys	Met
			100					105					110		

Ala Gln Phe Tyr Phe Phe Ala Phe Phe Ala Ile Ser Glu Cys Tyr Val  
 115 120 125  
 Leu Thr Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu  
 130 135 140  
 Leu Tyr Asn Ile Val Met Ser Pro Lys Leu Cys Ser Tyr Leu Met Met  
 145 150 155 160  
 Gly Thr Tyr Leu Met Gly Phe Ser Gly Ala Met Ile His Thr Gly Cys  
 165 170 175  
 Ile Leu Arg Leu Thr Phe Cys Asp Lys Asn Thr Ile Asn His Tyr Phe  
 180 185 190  
 Cys Asp Ile Leu Pro Leu Leu Gln Ile Ser Cys Thr Ser Thr Tyr Val  
 195 200 205  
 Asn Glu Ile Glu Leu Phe Ile Val Ala Gly Lys Asp Ile Ile Val Pro  
 210 215 220  
 Thr Val Ile Ile Phe Thr Ser Tyr Gly Phe Ile Leu Ser Ser Ile Leu  
 225 230 235 240  
 Lys Ile Ser Ser Thr Ala Gly Met Ser Lys Ala Phe Ser Thr Cys Ser  
 245 250 255  
 Ser His Ile Ile Ala Leu Cys Leu Phe Phe Gly Ser Cys Thr Phe Met  
 260 265 270  
 Tyr Leu Lys Pro Ser Ser Val Glu Ser Met Asp Gln Gly Lys Ile Ser  
 275 280 285  
 Ser Val Phe Tyr Asn Ile Val Val Pro Leu Met Asn Pro Leu Ile Tyr  
 290 295 300  
 Ser Leu Arg Asn Lys Asp Val Lys Ile Ala Ile Lys Lys Thr Ile Thr  
 305 310 315 320  
 Lys Gly Lys Phe Xaa Ser Glu Phe Val Ile Leu Phe Thr Phe Ser Tyr  
 325 330 335

&lt;210&gt; 2354

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M84 8439916-22-16651-22211 2487-1540)

&lt;400&gt; 2354

Met Ala Leu Ala Asn Gly Ser Phe Val Thr Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Thr Asp Gln Pro Asp Leu Gln Met Pro Leu Phe Leu Ile Phe Leu  
 20 25 30  
 Ile Ile Tyr Leu Ile Thr Ala Phe Gly Asn Leu Thr Leu Ile Ile Leu  
 35 40 45  
 Ile Val Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Leu Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Met Asn Phe Val Leu Glu Lys Asn Ile Ile Ser Tyr Met Gly  
 85 90 95  
 Cys Met Thr Gln Phe Tyr Phe Phe Gly Phe Phe Ala Ile Ser Glu Cys  
 100 105 110  
 Tyr Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Ser Val Ala Met Ser Pro Lys Met Cys Ser Tyr Phe  
 130 135 140  
 Ile Leu Gly Ser Tyr Phe Met Gly Phe Ser Gly Ala Met Ile His Thr  
 145 150 155 160  
 Gly Cys Val Met Arg Leu Thr Phe Cys Asp Gly Asn Thr Ile Asn His  
 165 170 175  
 Tyr Phe Cys Asp Leu Leu Pro Leu Leu Ser Cys Thr Ser Thr  
 180 185 190  
 Tyr Val Asn Glu Ile Glu Leu Phe Ile Val Thr Gly Lys Asp Ile Ile  
 195 200 205

Val Pro Thr Val Ile Ile Phe Ala Ser Tyr Gly Phe Ile Leu Ser Asn  
 210 215 220  
 Ile Leu Lys Ile Arg Ser Thr Ser Gly Arg Ser Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Ile Ile Ala Val Ser Met Phe Phe Gly Ser Ser Ala  
 245 250 255  
 Phe Met Tyr Leu Lys Pro Ser Ser Ala Val Ser Met Asn Glu Ala Lys  
 260 265 270  
 Phe Ser Ser Ile Phe Tyr Ser Ile Val Val Pro Met Met Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Gly Leu Lys Lys Thr  
 290 295 300  
 Leu Ser Arg Met Phe Ser His Asn Leu Ile Ser Leu  
 305 310 315

&lt;210&gt; 2355

&lt;211&gt; 239

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M90 8567804-15-6071-7402 605-1319)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(239)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2355

Asn Thr Glu Gly His Ser Leu Ile Leu Thr Tyr Asn Val Ser Asn Thr  
 1 5 10 15  
 Gln Ile Asn Cys Phe Cys Leu Ile Tyr Thr Xaa Tyr Asn Leu Leu Xaa  
 20 25 30  
 Phe Leu Glu Ile Tyr Phe Cys Pro Leu Leu Ile Pro Cys Val Ala Glu  
 35 40 45  
 Trp Ser Arg Gly Asp Cys Ile Glu Ile Leu Glu Tyr Asn Ile Cys Ile  
 50 55 60  
 Phe Ile Lys Leu Met Val Pro Thr Met Ser Ser Leu His Tyr Leu Met  
 65 70 75 80  
 Asn Ser Ser Val Xaa Tyr Leu Lys Ile Phe His Val Ser Lys Glu Leu  
 85 90 95  
 Tyr Gly Ser Phe Leu Gly Gly Ile Phe Phe Leu Ala Asn His Cys Arg  
 100 105 110  
 Glu Ile Glu Ile Ser Asn Arg Thr Thr Glu Met Arg Ile Lys Ala Leu  
 115 120 125  
 Gln Lys Gly Leu Arg Asp Ile Ser Phe Ile Thr Asn Ser Val Gly Ile  
 130 135 140  
 Val Ile Leu Ile Ile Ile Tyr Ala Arg Leu Gln Lys Ser Thr Glu Gly  
 145 150 155 160  
 Thr Val Lys Thr Ser Ser Asn Cys Gly Tyr His Ile Ile Ser Ile Tyr  
 165 170 175  
 Leu Phe Phe Leu Lys Phe Ala Phe Leu Tyr Ile Phe Lys Tyr Val Ser  
 180 185 190  
 Arg Met His Gln Gly Ser Val Ser Ser Val Phe Tyr Thr Asn Val Val  
 195 200 205  
 Pro Ile Cys Asn Thr Leu Ile Tyr Ser Leu Xaa Asn Asp Val Thr Ile  
 210 215 220  
 Ala Trp Met Asn Val Leu Met Lys Phe Gln Arg His Leu Phe Tyr  
 225 230 235

&lt;210&gt; 2356

&lt;211&gt; 202

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M96 8567804-8-3023-3783 759-153)



<220>  
 <221> VARIANT  
 <222> (1)...(202)  
 <223> Xaa = Any Amino Acid

<400> 2356

```

Ile Leu Leu Gly Leu Thr Gln Gln Pro Glu Leu Gln Leu Pro Leu Phe
 1           5           10           15
Phe Gln Phe Leu Gly Ile Tyr Val Val Ser Ile Val Gly Asn Leu Gly
 20           25           30
Leu Ile Val Leu Ile Val Leu Asn Pro His Leu His Thr Pro Met Tyr
 35           40           45
Tyr Phe Leu Phe Asn Leu Ser Phe Thr Asp Leu Cys Tyr Ser Ser Ala
 50           55           60
Ile Thr Pro Lys Met Leu Val Gly Phe Val Asn Gln Asn Ile Ile Ala
 65           70           75           80
His Ala Glu Cys Leu Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Leu
 85           90           95
Asp Glu Cys Tyr Ile Cys Thr Glu Met Ala Tyr Asp Arg Tyr Ala Ala
 100          105          110
Ile Cys Lys Thr Leu Leu Asn Gln Val Thr Met Ser His Gln Val Cys
 115          120          125
Leu Glu Ile Thr Lys Gly Trp Ile Ile Leu Tyr Ser Glu Met Glu Lys
 130          135          140
Ser Lys Lys Ser Phe Xaa Met Tyr Ile Ser Ile Leu Leu Phe Phe Ser
 145          150          155          160
Leu Phe Gly Asp Ile Ile Ser Leu Lys Ser Phe Met Leu Ser Lys Cys
 165          170          175
Leu Thr Thr Asp Leu His Leu Lys Ser Arg His Ile Cys Lys Phe Cys
 180          185          190
Val Ala Val Ser Asp Asn Val Leu Leu Leu
 195          200

```

<210> 2357  
 <211> 123  
 <212> PRT  
 <213> Mus musculus (M98 8570471-14-891-2711 1429-1795)

<220>  
 <221> VARIANT  
 <222> (1)...(123)  
 <223> Xaa = Any Amino Acid

<400> 2357

```

Leu Cys Gly Ser Gly Thr Leu Ile Phe Ser Ser Glu Met Leu Phe Ile
 1           5           10           15
Phe Leu Gly Lys Xaa Phe Phe Gly Xaa Xaa Asp Leu Ile Val Ala Ile
 20           25           30
Phe Cys Ile Phe Asn Phe Leu Lys Leu Ser Leu Leu Thr Lys Val Pro
 35           40           45
Glu Cys Asp Phe Xaa Asn Lys Leu Ser Xaa Xaa Asn Glu Tyr Ile Xaa
 50           55           60
Asn Ile Val Pro Asp Ser Tyr Xaa Tyr Arg Asn Leu Tyr Trp Gly Asn
 65           70           75           80
Gly Asn Met Ser Ser Thr Gly Cys Met Leu Arg Leu Thr Ser Trp Asp
 85           90           95
Gly Asn Thr Ile Asn His Tyr Phe Cys Asp Leu Leu Pro Phe Leu Gln
 100          105          110
Leu Ser Cys Thr Ser Thr Tyr Val His Tyr Thr
 115          120

```

<210> 2358  
 <211> 179  
 <212> PRT  
 <213> Mus musculus (M99 8570471-17-1-2939 17-553)

<220>  
 <221> VARIANT  
 <222> (1)...(179)  
 <223> Xaa = Any Amino Acid

<400> 2358  
 Ile Cys Leu Asn Leu Met Leu Val Ser Tyr Phe Ile Ala Phe Ser Glu  
 1 5 10 15  
 Ser Val Ala His Thr Ala Cys Met Leu Arg Leu Thr Phe Cys Asp Ala  
 20 25 30  
 Asn Thr Ile Asn Tyr Tyr Phe Cys Asp Ile Pro Pro Leu Leu Gln Leu  
 35 40 45  
 Ser Cys Thr Thr Thr Arg Val Asn Glu Val Val Ile Phe Val Val Gly  
 50 55 60  
 Ser Ile Asn Ile Ile Ile Pro Thr Ser Thr Ile Phe Val Ser Tyr Gly  
 65 70 75 80  
 Phe Ile Leu Ser Ser Ile Phe Leu Ile Thr Ala Ser Glu Gly Arg Ser  
 85 90 95  
 Lys Ala Phe Ser Thr Cys Ser Ser His Ile Ile Ala Ala Phe Leu Phe  
 100 105 110  
 Phe Gly Ser Gly Ala Ile Arg Tyr Phe Lys Pro Ser Ser Asp Gly Ser  
 115 120 125  
 Met Asp Glu Gly Lys Ile Ser Ser Val Phe Tyr Thr Asn Val Ile Pro  
 130 135 140  
 Met Ile Asn Pro Leu Leu Tyr Ser Leu Arg Asn Lys Asp Ile Lys Val  
 145 150 155 160  
 Ala Leu Arg Arg Thr Leu Arg Lys Arg Asn Phe Xaa Leu Ser Ser Val  
 165 170 175  
 Val Cys Val

<210> 2359  
 <211> 324  
 <212> PRT  
 <213> Mus musculus (M100 8570471-17-6599-8104 424-1396)

<220>  
 <221> VARIANT  
 <222> (1)...(324)  
 <223> Xaa = Any Amino Acid

<400> 2359  
 Ile Phe Cys Val Tyr Arg Phe Ser Gln Arg Arg Met Asp Ser Val Asn  
 1 5 10 15  
 Ile Ser Leu Val Thr Glu Phe Ile Leu Val Gly Leu Thr Asp Lys Pro  
 20 25 30  
 Tyr Leu Gln Ile Pro Leu Phe Phe Ile Phe Leu Ala Met Tyr Leu Val  
 35 40 45  
 Thr Ala Leu Gly Asn Leu Ser Leu Ile Ile Leu Thr Val Leu Asn Ser  
 50 55 60  
 His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn Leu Ser Phe Val  
 65 70 75 80  
 Asp Phe Cys Tyr Ser Ser Val Phe Thr Pro Gln Met Leu Met Asn Phe  
 85 90 95  
 Ile Thr Arg Lys Asn Thr Ile Ser Tyr Met Glu Cys Met Ser Gln Leu

```

      100      105      110
Tyr Phe Phe Cys Phe Phe Val Ile Ser Glu Cys Tyr Val Leu Thr Ser
      115      120      125
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Asn
      130      135      140
Leu Val Met Ser Ser Lys Leu Cys Leu Asn Leu Met Leu Val Ser Tyr
145      150      155      160
Phe Ile Ala Phe Ser Glu Ser Val Ala His Thr Val Cys Ile Met Arg
      165      170      175
Leu Asn Phe Cys Asp Ala Ser Lys Ile Asn His Tyr Phe Cys Asp Ile
      180      185      190
Pro Pro Leu Leu Gln Leu Ser Cys Thr Thr Thr Tyr Ile Asn Lys Leu
      195      200      205
Val Val Phe Val Ala Ser Ser Ile Asn Ile Ile Val Pro Ile Ser Thr
      210      215      220
Ile Phe Ile Ser Tyr Gly Phe Ile Leu Ser Ser Ile Phe His Ile His
225      230      235      240
Ser Ser Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys Ser Ser His Ile
      245      250      255
Ile Ala Ala Phe Leu Phe Phe Gly Ser Gly Ala Phe Met Tyr Phe Gln
      260      265      270
Pro Ser Ser Ala Glu Ser Met Asp Glu Gly Lys Ile Ser Ser Val Phe
      275      280      285
Tyr Thr Asn Val Ile Pro Met Met Asn Pro Leu Leu Tyr Ser Leu Arg
      290      295      300
Asn Lys Asp Ile Lys Val Ala Leu Arg Lys Thr Leu Ser Lys Arg Asn
305      310      315      320
Ile Xaa Leu Tyr

```

&lt;210&gt; 2360

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M101 8570471-19-17517-20152 1114-134)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(327)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2360

```

Leu Phe Ile Phe His Lys Ile Ser Tyr Arg Ser Met Ala Leu Ile Asn
 1      5      10      15
Gly Ser Val Val Thr Glu Phe Ile Leu Leu Gly Leu Thr Asp Gln Pro
      20      25      30
Asp Leu Gln Val Pro Leu Phe Leu Val Phe Leu Leu Met Tyr Met Ile
      35      40      45
Thr Ala Leu Gly Asn Leu Thr Leu Ile Ile Leu Ile Val Leu Asn Ser
      50      55      60
His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn Leu Ser Phe Val
      65      70      75      80
Asp Phe Cys Tyr Ser Ser Val Ile Ile Pro Lys Met Leu Met Asn Phe
      85      90      95
Ile Leu Lys Lys Asn Phe Ile Ser Tyr Val Gly Cys Met Thr Gln Phe
      100      105      110
Tyr Leu Phe Gly Phe Cys Val Ile Leu Glu Cys Tyr Ile Leu Thr Ser
      115      120      125
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Leu Tyr Asn
      130      135      140
Ile Val Met Ser Pro Lys Met Cys Ser Tyr Leu Met Leu Gly Ser Tyr
145      150      155      160

```

Leu Met Gly Phe Ser Gly Ala Met Ile His Thr Gly Cys Val Leu Arg  
 165 170 175  
 Leu Ser Phe Cys Asp Gly Asn Ile Ile Asn His Tyr Phe Cys Asp Leu  
 180 185 190  
 Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr Tyr Val Asn Glu Ile  
 195 200 205  
 Glu Val Leu Ile Val Ala Gly Lys Asp Ile Ile Val Pro Thr Val Ile  
 210 215 220  
 Ile Phe Ile Ser Tyr Gly Phe Ile Leu Ser Ser Ile Phe Gln Met Lys  
 225 230 235 240  
 Ser Thr Lys Gly Met Ser Lys Ala Phe Ser Thr Cys Ser Ser His Ile  
 245 250 255  
 Ile Ala Val Ser Leu Phe Phe Gly Ser Gly Ala Phe Met Tyr Leu Lys  
 260 265 270  
 Pro Asn Ser Thr Gly Thr Met Asn Asn Gly Lys Ile Pro Ser Ile Ile  
 275 280 285  
 Tyr Thr Ile Leu Ile Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg  
 290 295 300  
 Asn Lys Asp Val Lys Val Ala Leu Arg Lys Thr Leu Arg Lys Lys Ile  
 305 310 315 320  
 Leu Xaa Ser Glu Thr Val Ile  
 325

&lt;210&gt; 2361

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M104 8570471-3-1-2271 2172-1151)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(341)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2361

Asn Phe Ala Ile Phe Phe Ser Val His Arg Phe Ser Xaa Arg Arg Met  
 1 5 10 15  
 Ala Leu Val Asn Gly Ser Thr Val Thr Glu Phe Ile Leu Leu Gly Leu  
 20 25 30  
 Thr Asp Gln Pro Gly Leu Gln Met Pro Leu Phe Leu Leu Phe Leu Leu  
 35 40 45  
 Met Tyr Met Ile Thr Val Phe Gly Asn Leu Thr Leu Ile Phe Leu Ile  
 50 55 60  
 Leu Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Leu Asn  
 65 70 75 80  
 Leu Ser Phe Val Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys Met  
 85 90 95  
 Leu Met Asn Phe Ile Leu Lys Lys Asn Leu Ile Ser Tyr Met Gly Cys  
 100 105 110  
 Met Ser Gln Leu Tyr Phe Phe Cys Phe Phe Ile Ile Ser Glu Cys Tyr  
 115 120 125  
 Val Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro  
 130 135 140  
 Leu Leu Tyr Asn Thr Ala Met Ser Pro Arg Val Cys Ser Tyr Leu Met  
 145 150 155 160  
 Leu Gly Thr Tyr Leu Met Gly Phe Phe Asp Ala Met Ile His Thr Gly  
 165 170 175  
 Cys Met Leu Arg Leu Ser Phe Cys Asp Gly Asn Ile Ile Asn His Tyr  
 180 185 190  
 Phe Cys Asp Val Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr Tyr  
 195 200 205  
 Val Asn Glu Thr Glu Ile Phe Ile Val Gly Gly Lys Asp Ile Ile Leu

```

      210              215              220
Pro Ser Ala Ile Ile Phe Phe Ser Tyr Gly Phe Ile Leu Ser Asn Ile
225              230              235              240
Phe Gln Ile Arg Ser Thr Leu Gly Arg Ser Lys Ala Phe Ser Thr Cys
      245              250              255
Ser Ser His Ile Ile Ala Val Ser Leu Phe Phe Gly Ser Cys Gly Phe
      260              265              270
Met Tyr Leu Lys Pro Ser Ser Ala Val Ser Ile Asp Gln Gly Lys Ile
      275              280              285
Ser Ser Ile Phe Tyr Thr Ile Val Val Pro Met Met Asn Pro Leu Ile
      290              295              300
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Lys Thr Leu
305              310              315              320
Ser Arg Arg Lys Phe Leu Lys Val Xaa Leu Gln Ser Arg His Phe Leu
      325              330              335
Cys Xaa Cys Thr Tyr
      340

```

&lt;210&gt; 2362

&lt;211&gt; 337

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M106 8570471-9-3672-5945 1670-660)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(337)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2362

```

Ile Asn Ile Phe Phe Leu Leu Pro Thr Xaa Asn Met Gln Val Gln Met
1              5              10              15
Ala Asp Thr Asn His Ser Thr Val Thr Glu Phe Ile Leu Ala Gly Leu
      20              25              30
Thr Asp Lys Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu Gly
      35              40              45
Ile Tyr Leu Leu Thr Val Leu Gly Asn Leu Gly Met Ile Ile Leu Ile
      50              55              60
Leu Leu Ser Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Ser
65              70              75              80
Leu Ser Phe Ile Asp Leu Cys Tyr Ser Thr Val Ile Thr Pro Lys Met
      85              90              95
Leu Val Asn Phe Val Ala Lys Lys Asn Val Ile Ser Tyr Glu Glu Cys
      100              105              110
Met Thr Gln Leu Tyr Phe Phe Leu Ala Phe Val Ile Ser Glu Cys His
      115              120              125
Met Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
      130              135              140
Leu Leu Tyr Asn Val Thr Met Ser Tyr Gln Ile Cys Ser Trp Met Val
145              150              155              160
Gly Gly Val Tyr Gly Met Gly Leu Ile Gly Ala Ala Val His Thr Leu
      165              170              175
Cys Met Leu Arg Val Val Phe Cys Lys Ala Asn Ile Ile Asn His Tyr
      180              185              190
Phe Cys Asp Leu Phe Pro Leu Met Glu Leu Ala Cys Ser Ser Thr Tyr
      195              200              205
Val Asn Glu Val Val Leu Leu Cys Leu Ser Ala Phe Asn Ile Phe Ile
      210              215              220
Pro Thr Leu Thr Ile Leu Gly Ser Tyr Ile Phe Ile Ile Ile Ser Ile
225              230              235              240
Leu Arg Ile Lys Ser Thr Glu Gly Arg Phe Lys Ala Phe Ser Thr Cys
      245              250              255

```

Ser Ser His Phe Ser Ala Val Ser Val Phe Phe Gly Ser Leu Ala Phe  
 260 265 270  
 Met Tyr Leu Gln Pro Phe Ser Val Ser Ser Lys Asp Lys Gly Lys Val  
 275 280 285  
 Ser Ser Val Phe Tyr Thr Thr Ile Val Pro Met Leu Asn Pro Met Ile  
 290 295 300  
 Tyr Ser Leu Arg Asn Arg Asp Val Lys Leu Ala Leu Asn Lys Leu Phe  
 305 310 315 320  
 Gln Lys Lys Phe His Val Xaa Arg Ser Ile Tyr Leu Arg Lys Thr Ile  
 325 330 335  
 Gln

&lt;210&gt; 2363

&lt;211&gt; 256

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M107 8571727-11-1262-2044 781-16)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(256)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2363

Ile Leu Leu Gly Leu Thr Gln Gln Pro Glu Leu Gln Leu Pro Leu Phe  
 1 5 10 15  
 Phe Gln Phe Leu Gly Ile Tyr Val Val Ser Ile Val Gly Asn Leu Gly  
 20 25 30  
 Leu Ile Val Leu Ile Val Leu Asn Pro His Leu His Thr Pro Met Tyr  
 35 40 45  
 Tyr Phe Leu Phe Asn Leu Ser Phe Thr Asp Leu Cys Tyr Ser Ser Ala  
 50 55 60  
 Ile Thr Pro Lys Met Leu Val Gly Phe Val Asn Gln Asn Ile Ile Ala  
 65 70 75 80  
 His Ala Glu Cys Leu Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Leu  
 85 90 95  
 Asp Glu Cys Tyr Ile Cys Thr Glu Met Ala Tyr Asp Arg Tyr Ala Ala  
 100 105 110  
 Ile Cys Lys Thr Leu Leu Asn Gln Val Thr Met Ser His Gln Val Cys  
 115 120 125  
 Leu Gly Asn His Lys Arg Leu Asp Tyr Ile Ile Phe Arg Asn Gly Lys  
 130 135 140  
 Ile Lys Lys Ile Phe Leu Asn Val His Ile Tyr Phe Ile Ile Phe Xaa  
 145 150 155 160  
 Phe Val Cys Gly Thr Ser Tyr Pro Xaa Ser Leu Ser Cys Xaa Ala Ser  
 165 170 175  
 Val Xaa Pro Leu Thr Tyr Ile Leu Arg Val Gly Thr Phe Val Ser Phe  
 180 185 190  
 Val Trp Leu Ser Gln Thr Met Ser Tyr Tyr Phe Ile Ile Ala Asn Leu  
 195 200 205  
 Trp Asp Asn Leu Xaa Glu Ser Ser Phe Xaa Arg Leu Ile Cys Cys Ser  
 210 215 220  
 Lys Gly Xaa Ser Lys Glu Gly Lys Xaa Lys Leu Ser Phe Trp Ser  
 225 230 235 240  
 Phe Phe Ile Val Leu Lys Gln Phe Arg Lys Glu Gly Leu Thr Ser Tyr  
 245 250 255

&lt;210&gt; 2364

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M111 8571727-21-4956-7261 1151-153)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(333)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2364

```

Ile Leu Met Leu Xaa Leu Leu Leu Phe Leu Gln Glu Arg Met Val Leu
1      5      10      15
Glu Asn Ser Ser Ser Val Lys Glu Phe Ile Leu Leu Gly Leu Thr Gln
20      25      30
Gln Pro Glu Leu Gln Met Pro Leu Phe Phe Leu Phe Leu Gly Ile Tyr
35      40      45
Ile Val Ser Met Val Gly Asn Leu Gly Leu Thr Val Leu Ile Val Leu
50      55      60
Asn Pro His Leu His Asn Pro Met Tyr Tyr Phe Leu Phe Asn Leu Ser
65      70      75      80
Phe Thr Asp Leu Cys Tyr Ser Thr Val Ile Thr Pro Arg Met Leu Val
85      90      95
Gly Phe Val Lys Gln Asn Thr Ile Ser His Ala Glu Cys Met Thr Gln
100     105     110
His Phe Phe Phe Cys Phe Phe Val Ile Asp Glu Cys Tyr Ile Leu Thr
115     120     125
Ala Val Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Lys Pro Leu Leu Tyr
130     135     140
Gln Val Thr Met Ser His Gln Val Cys Leu Leu Met Thr Val Gly Val
145     150     155     160
Tyr Val Met Gly Phe Leu Glu Ala Ile Ala His Thr Gly Ser Met Val
165     170     175
Ser Leu Thr Phe Cys Asp Gly Asn Ile Ile Asn His Tyr Ala Cys Asp
180     185     190
Ile Leu Pro Leu Leu Lys Leu Ser Cys Thr Ser Thr Thr Ile Asn Glu
195     200     205
Leu Val Val Phe Ile Val Val Gly Val Asn Val Ile Val Pro Thr Leu
210     215     220
Thr Ile Phe Ile Ser Tyr Thr Leu Ile Leu Ser Asn Ile Leu Ser Ile
225     230     235     240
His Ser Ala Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys Gly Ser His
245     250     255
Val Ile Ala Val Ser Leu Phe Phe Gly Ala Ala Ala Phe Met Tyr Leu
260     265     270
Lys Pro Ser Ser Ala Ser Glu Asp Asp Asp Lys Val Ser Thr Ile Phe
275     280     285
Tyr Thr Ile Val Gly Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg
290     295     300
Asn Lys Asp Val Tyr Leu Ala Leu Arg Lys Thr Leu Met Lys Arg Ser
305     310     315     320
Phe Thr Xaa Val Glu Ser Ile Phe Val Met Glu Leu Lys
325     330

```

&lt;210&gt; 2365

&lt;211&gt; 344

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M112 8571727-22-3043-8090 3092-2061)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(344)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 2365

Ile Val Cys Phe Ile Ser Leu Phe Xaa Val Met Ser Gln Lys Arg Met  
 1 5 10 15  
 Ala Pro Arg Asn Ser Ser Ser Val Thr Glu Phe Ile Leu Val Gly Phe  
 20 25 30  
 Ser Asn Gln Pro Ala Leu Gln Leu Pro Leu Phe Phe Val Phe Leu Gly  
 35 40 45  
 Ile Tyr Val Leu Thr Val Ile Gly Asn Leu Gly Leu Ile Thr Leu Ile  
 50 55 60  
 Gly Leu Asn Ser Ser Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn  
 65 70 75 80  
 Leu Ser Phe Ile Asp Phe Cys Tyr Ser Cys Val Phe Thr Pro Lys Met  
 85 90 95  
 Leu Ser Asp Phe Val Ser Glu Asn Ile Ile Ser Tyr Met Gly Cys Met  
 100 105 110  
 Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Asn Ser Glu Cys Tyr Val  
 115 120 125  
 Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu  
 130 135 140  
 Leu Tyr Thr Val Thr Met Ser Pro Gln Val Cys Thr Leu Leu Met Phe  
 145 150 155 160  
 Cys Ser Tyr Val Ile Gly Phe Ala Gly Ala Met Ala His Thr Gly Ser  
 165 170 175  
 Met Leu Thr Leu Thr Phe Cys Asp Ser Asn Met Ile His His Tyr Leu  
 180 185 190  
 Cys Glu Val Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr Tyr Ala  
 195 200 205  
 Asn Glu Leu Val Phe Phe Ile Val Val Gly Val Val Ile Thr Ala Ser  
 210 215 220  
 Ser Ile Ser Ile Phe Ile Ser Tyr Ala Leu Ile Leu Ser Asn Ile Leu  
 225 230 235 240  
 Lys Ile Pro Ser Ala Glu Gly Arg Ser Lys Ala Phe Gly Thr Trp Gly  
 245 250 255  
 Ser His Val Val Ala Val Ala Leu Phe Phe Gly Ser Gly Ala Phe Thr  
 260 265 270  
 Tyr Leu Thr Thr Ser Phe Pro Gly Ser Met Glu Glu Gly Arg Phe Ala  
 275 280 285  
 Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu Ile Tyr  
 290 295 300  
 Ser Leu Arg Asn Lys Asp Val Lys Leu Ala Leu Asn Lys Thr Leu Lys  
 305 310 315 320  
 Arg Val Leu Phe Xaa Xaa Val Trp Cys Tyr His Trp Asn Xaa Ile Leu  
 325 330 335  
 Gly Lys His Thr Gln Ile His Phe  
 340

&lt;210&gt; 2366

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M113 8571727-23-1650-2708 1059-589)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(157)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2366

Ile Arg Phe Ala Gly Ser Ser Val His Thr Gly Cys Val Phe Leu Xaa  
 1 5 10 15  
 Gly His Ala Ile Asn His Xaa Leu Phe Asn Ile Leu Thr Leu Leu Gln  
 20 25 30  
 Leu Ser Xaa Ala Thr Thr Tyr Val Asn Val Val Ile Leu Ile Gly Val



```

      35      40      45
Tyr Ile Thr Val Pro Ser Phe Thr Ile Leu Ile Ser Tyr Val Phe Ile
  50      55      60
Phe Ile Asn Ile Leu Asn Ile Lys Ser Met Gln Arg Ile Ser Lys Asp
  65      70      75      80
Phe Ser Ile Cys Arg Phe His Ile Ala Ser Ile Tyr Val Phe Ile Glu
      85      90      95
Phe Thr Ala Phe Lys Cys Phe Lys Tyr Ser Tyr Gly Ser Ile Asp Gln
      100      105      110
Gly Phe Tyr Ser Ser Val Phe Tyr Thr Asp Val Ile Leu Ile Leu Asn
      115      120      125
Ile Ile Ile Tyr Ser Met Cys Ile Met Asp Val Glu Met Ala Leu Met
      130      135      140
Asp Ala Leu Met Lys Phe Gln Arg Asn Val Phe His Leu
  145      150      155

```

&lt;210&gt; 2367

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M114 8571727-23-3031-3453 387-9)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(127)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2367

```

His Ser Ile Gln Tyr Leu Asn Leu Ile Asn Leu Ser Tyr Ile Asp Leu
  1      5      10      15
Cys Tyr Ser Ser Val Pro Arg Ser Lys Met Leu Met Asn Phe Val Phe
      20      25      30
Glu Lys Asn Ala Ile Ser Phe Val Gly Cys Asp Ser Ile Gln Phe Ser
      35      40      45
Leu Val Pro Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe
      50      55      60
Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Val Ile Phe
      65      70      75      80
Xaa Tyr Tyr Thr Leu Thr Ser Met Ala Tyr Asp Phe Tyr Val Ala Ile
      85      90      95
Cys Ser Ser Leu Val His Xaa Val Thr Pro Leu Leu Gln Val Cys Phe
      100      105      110
Phe Ser Phe Leu Leu Leu Phe Phe Phe Cys Pro Leu Phe Pro Met
      115      120      125

```

&lt;210&gt; 2368

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M115 8571727-24-1-1404 400-2)

&lt;400&gt;2368

```

Cys Asn Val Ile Thr Phe Thr Val Leu Thr Asp Met Asn Trp Gly Arg
  1      5      10      15
Met Ala Leu Gly Asn Asp Ser Ser Val Lys Glu Phe Ile Leu Leu Gly
      20      25      30
Leu Thr Gln Gln Pro Glu Leu Gln Leu Pro Leu Phe Phe Phe Phe Leu
      35      40      45
Gly Val Tyr Ile Phe Ser Val Val Gly Asn Leu Gly Leu Ile Val Leu
      50      55      60
Ile Val Leu Asn Pro His Leu Gln Thr Pro Met Tyr Tyr Phe Leu Phe
      65      70      75      80
Asn Leu Ser Phe Thr Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys

```

				85					90					95			
Met	Leu	Val	Ser	Phe	Val	Lys	Gln	Asn	Ile	Ile	Ser	His	Ala	Glu	Cys		
			100					105					110				
Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr		
		115					120					125					
Ile	Leu	Thr	Ala	Met													
	130																

&lt;210&gt; 2369

&lt;211&gt; 262

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M117 8571727-26-4808-6724 1497-715)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(262)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2369

Ser	Ser	Leu	His	Ala	Ser	His	Ser	His	Glu	Leu	Xaa	Lys	Gly	Ile	Val		
1				5					10					15			
Gly	Leu	Phe	Xaa	Ala	Ala	Ser	Tyr	Ser	Thr	Val	Lys	Leu	Pro	Lys	Met		
			20					25					30				
Leu	Val	Ser	Phe	Val	Lys	Gln	Asn	Thr	Ile	Ser	Tyr	Ala	Glu	Cys	Met		
		35					40					45					
Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr	Ile		
	50					55					60						
Leu	Thr	Ala	Met	Ala	Tyr	Asp	Met	Phe	Ala	Ala	Ile	Ser	Lys	Pro	Leu		
65				70					75						80		
Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Trp	Val	Cys	Leu	Leu	Met	Ile	Val		
				85					90					95			
Gly	Val	Tyr	Val	Ile	Gly	Phe	Ser	Gly	Ser	His	Tyr	Thr	Ser	Met	Pro		
			100					105					110				
Asp	Leu	Xaa	Trp	Gln	Arg	His	Tyr	Met	Cys	Asp	Ile	Leu	Leu	Leu	Leu		
	115						120					125					
Gln	Leu	Ser	Cys	Glu	Ser	Thr	Ser	Ile	Asn	Glu	Leu	Val	Ile	Tyr	Arg		
	130					135						140					
Val	Gly	Phe	Asn	Val	Thr	Val	Pro	Ser	Leu	Thr	Ile	Phe	Ile	Ser	Tyr		
145					150					155					160		
Thr	Leu	Ile	Leu	Ser	Asn	Ile	Pro	Ser	Ile	His	Ser	Thr	Glu	Gly	Arg		
			165						170					175			
Asn	Cys	Gly	Ser	His	Val	Ile	Ala	Leu	Ser	Leu	Leu	Tyr	Gly	Ile	Val		
			180					185					190				
Ala	Phe	Thr	Tyr	Leu	Lys	Pro	Ser	Ser	Val	Ser	Val	Asp	Asp	Ala	Asn		
	195					200						205					
Val	Ser	Thr	Ile	Phe	Phe	Tyr	Thr	Val	Val	Gly	Pro	Met	Leu	Asn	Pro		
	210					215					220						
Phe	Leu	His	Ser	Ile	Arg	Asn	Lys	Asp	Val	His	Thr	Ala	Leu	Arg	Lys		
225					230					235					240		
Thr	Leu	Asn	Lys	Ser	Ser	Phe	Thr	Xaa	Val	Xaa	Val	Cys	Ile	Cys	Tyr		
			245						250					255			
Glu	Ser	Lys	Ile	Leu	Gly												
			260														

&lt;210&gt; 2370

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M119 8573058-17-2172-5249 1514-528)

&lt;220&gt;

&lt;221&gt; VARIANT

<222> (1)...(329)  
 <223> Xaa = Any Amino Acid

<400>2370

Val	Met	Leu	Leu	Ala	Phe	Leu	Leu	Pro	Thr	Asp	Asp	Thr	Ile	Met	His
1				5					10					15	
Met	Ala	Met	Glu	Asn	Asp	Ser	Ser	Val	Thr	Glu	Phe	Val	Phe	Met	Gly
			20					25					30		
Leu	Thr	Glu	Gln	Pro	Glu	Leu	Arg	Leu	Pro	Leu	Phe	Phe	Val	Phe	Leu
		35					40					45			
Leu	Asn	Tyr	Thr	Ala	Thr	Val	Met	Gly	Asn	Leu	Ser	Leu	Met	Val	Leu
	50					55					60				
Ile	Cys	Leu	Asn	Ser	His	Leu	His	Asn	Pro	Met	Tyr	Phe	Phe	Leu	Phe
65					70					75					80
Asn	Leu	Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Phe	Val	Cys	Thr	Pro	Lys
				85					90					95	
Met	Leu	Met	Gly	Phe	Val	Ser	Glu	Lys	Ser	Ile	Ile	Ser	Tyr	Thr	Gly
			100					105						110	
Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Asn	Ser	Glu	Cys
		115					120					125			
Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	130					135					140				
Pro	Leu	Val	Tyr	Ala	Ile	Leu	Met	Ser	Pro	Arg	Met	Cys	Ser	Leu	Leu
145					150					155					160
Met	Ile	Gly	Ser	Tyr	Leu	Met	Gly	Phe	Ala	Ser	Ala	Met	Ala	His	Thr
				165				170						175	
Gly	Cys	Met	Ile	Arg	Leu	Lys	Phe	Cys	Asp	Ser	Asn	Ile	Ile	Asn	His
		180						185					190		
Tyr	Met	Cys	Glu	Ile	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Ser	Thr
		195					200					205			
Tyr	Ala	Asn	Glu	Leu	Val	Ser	Ser	Leu	Ile	Ala	Cys	Ile	Val	Val	Ile
	210					215					220				
Val	Ser	Gly	Leu	Val	Ile	Leu	Met	Ser	Tyr	Ala	Ser	Ile	Leu	Leu	Asn
225					230					235					240
Val	Val	Gln	Met	Ser	Ser	Ala	Thr	Gly	Trp	Ser	Lys	Ala	Met	Gly	Thr
				245				250						255	
Cys	Gly	Ser	His	Ile	Ile	Thr	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Gly	Leu
		260						265					270		
Leu	Thr	Tyr	Val	Lys	Pro	Ala	Ser	Ala	Glu	Ser	Val	Asp	Gln	Gly	Lys
		275					280					285			
Phe	Phe	Ser	Val	Phe	Tyr	Thr	Leu	Met	Val	Pro	Met	Leu	Asn	Pro	Leu
	290					295					300				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Ala	Lys	Arg	Thr
305					310					315					320
Met	Asn	Arg	Ile	Thr	Ile	Xaa	Gly	Lys							
				325											

<210> 2371

<211> 335

<212> PRT

<213> Mus musculus (M122 8573058-3-1-3007 1710-2714)

<220>

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400>2371

Val	Leu	Ile	Leu	Pro	Leu	His	Leu	Phe	Leu	Gln	Met	Ser	Leu	Asn	Ala
1				5				10						15	
Gln	Lys	Thr	Met	Glu	Asn	Asp	Ser	Ser	Val	Ser	Glu	Phe	Ile	Leu	Met

```

      20      25      30
Gly Leu Thr Asp Gln Pro Glu Leu Gln Leu Pro Leu Phe Val Leu Phe
      35      40      45
Leu Val Asn Tyr Thr Val Thr Val Met Gly Asn Leu Ser Leu Met Asn
      50      55      60
Leu Ile Cys Leu Asn Ser Asn Leu His Thr Pro Met Tyr Phe Phe Ile
      65      70      75      80
Phe Asn Leu Ser Phe Ile Asp Phe Cys Tyr Ser Met Val Phe Thr Pro
      85      90      95
Lys Met Leu Met Gly Phe Val Val Glu Lys Asn Ile Ile Ser Phe Arg
      100      105      110
Gly Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe Val Asn Ser Glu
      115      120      125
Ser Tyr Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
      130      135      140
Gln Pro Leu Leu Tyr Lys Ala Val Met Ser Pro Gly Ile Cys Phe Leu
      145      150      155      160
Leu Ile Phe Cys Thr Tyr Leu Met Gly Leu Val Ser Ala Leu Phe His
      165      170      175
Thr Gly Phe Met Ile Arg Leu Asn Phe Cys Asp Ser Asn Val Ile Asn
      180      185      190
His Tyr Met Cys Asp Ile Phe Pro Leu Phe Arg Leu Ser Cys Ser Ser
      195      200      205
Thr Tyr Leu Thr Glu Leu Val Ser Ser Ala Val Val Gly Thr Ala Ile
      210      215      220
Ile Leu Cys Cys Leu Ile Ile Leu Ile Ser Tyr Gly Met Ile Leu Tyr
      225      230      235      240
Asn Ile Ile His Met Ser Ser Gly Lys Gly Trp Ser Lys Ala Leu Gly
      245      250      255
Thr Cys Gly Ser His Ile Ile Thr Val Ser Leu Phe Tyr Val Thr Gly
      260      265      270
Met Leu Ala Tyr Val Lys Pro Ser Ser Ala Glu Thr Val Gly Gln Gly
      275      280      285
Lys Ile Phe Ser Val Phe Tyr Thr Phe Leu Val Pro Met Leu Asn Pro
      290      295      300
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Leu Ala Val Lys Lys
      305      310      315      320
Thr Trp Lys Arg Leu Thr Cys Xaa Ile Thr His Ser Asn Val Pro
      325      330      335

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&lt;210&gt; 2372

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M123 8573058-5-4486-4920 411-18)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(131)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2372

```

Leu Gly Gly Glu Asp Arg Phe Ser Leu Asn Asn Glu Ser Leu Ile Asn
1      5      10      15
Asn Ser Gly Leu Val Pro Cys Thr Phe His Ile Leu Thr Ser Phe Cys
20      25      30
Lys Ser Arg Ser Xaa Thr Phe Arg Thr Cys Gly Ser His Phe Ile Ala
35      40      45
Val Ser Leu Phe Tyr Gly Ala Ser Ala Phe Met Tyr Leu Lys Pro Ser
50      55      60
Ser Ala Ser Val Asp Asp Lys Ile Ser Thr Ile Phe Tyr Thr Ile
65      70      75      80

```

Val Gly Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp  
                   85                  90                  95  
 Val His Ile Ala Leu Arg Lys Tyr Phe Glu Glu Lys Ser Phe Ile Xaa  
                   100                  105                  110  
 Glu Glu Leu Xaa Leu Ile Xaa Met Glu Asn Leu Met Val Cys Gln Ile  
                   115                  120                  125  
 Tyr Asn Phe  
                   130

&lt;210&gt; 2373

&lt;211&gt; 167

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M124 8573058-8-1-894 16-516)

&lt;400&gt;2373

Leu Thr His Gly Ser Thr Pro Thr Gly Pro Ile Thr Ala Pro Ala Leu  
   1                  5                  10                  15  
 Thr Val Cys Met Val Trp Leu Gln Phe Leu Asp Ser Pro Leu Thr Thr  
                   20                  25                  30  
 Pro Tyr Met Cys His Ile Phe Pro Leu Leu Gln Val Ser Cys Ser Ser  
                   35                  40                  45  
 Pro Tyr Val Asn Gln Leu Met Ser Tyr Ile Ala Val Gly Thr Ala Ile  
   50                  55                  60  
 Ile Leu Cys Ser Leu Ile Ile Leu Val Ser Tyr Ala Met Ile Leu Phe  
  65                  70                  75                  80  
 Asn Ile Ile His Ile Ser Ser Gly Lys Gly Trp Ser Lys Ala Leu Gly  
                   85                  90                  95  
 Thr Cys Gly Ser His Ile Ile Thr Val Ser Leu Phe Tyr Gly Ser Gly  
                   100                  105                  110  
 Leu Leu Ala Tyr Val Asn Pro Ser Ser Ala Glu Thr Val Gly Gln Ala  
                   115                  120                  125  
 Lys Phe Phe Ser Val Phe Tyr Thr Leu Leu Val Pro Met Leu Asn Pro  
  130                  135                  140  
 Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Leu Ala Met Lys Lys  
  145                  150                  155                  160  
 Ser Trp Lys Arg Ile Thr Ser  
                   165

&lt;210&gt; 2374

&lt;211&gt; 337

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M126 8574266-10-448-5833 4192-5202)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(337)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2374

Leu Phe Ser Ser Cys Tyr His Lys Phe Ile Cys Lys Met Thr Ala Arg  
   1                  5                  10                  15  
 Asn Met Thr Thr Met Ser Gly Phe Leu Leu Met Gly Phe Ser Asp Asn  
                   20                  25                  30  
 His Glu Leu Gln Ile Leu Gln Ala Leu Leu Phe Leu Leu Thr Tyr Leu  
                   35                  40                  45  
 Leu Gly Ser Ala Gly Asn Phe Ile Ile Ile Thr Ile Thr Thr Leu Asp  
   50                  55                  60  
 Pro Gln Leu Gln Ser Pro Met Tyr Tyr Phe Leu Lys Gln Leu Ser Thr  
  65                  70                  75                  80  
 Leu Asp Leu Ser Ser Leu Ser Val Thr Val Pro Gln Tyr Val Ala Ser  
                   85                  90                  95

Ser Leu Ala Arg Ser Gly Tyr Ile Ser Tyr Gly Gln Cys Met Leu Gln  
 100 105 110  
 Ile Phe Phe Phe Thr Gly Leu Ala Trp Ser Glu Met Ala Thr Leu Thr  
 115 120 125  
 Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Leu Pro Leu His Tyr  
 130 135 140  
 Glu Val Ile Met Ser Pro Arg Lys Cys Thr Trp Ala Val Ala Val  
 145 150 155 160  
 Trp Leu Ser Gly Gly Ile Ser Gly Thr Leu Phe Thr Ala Ser Thr Leu  
 165 170 175  
 Ser Ile Arg Phe Cys Gly Asp Lys Ile Ile His Gln Phe Phe Cys Asp  
 180 185 190  
 Ile Pro Gln Leu Leu Lys Leu Ser Cys Ser Asn Asp Tyr Phe Gly Val  
 195 200 205  
 Leu Glu Val Ser Thr Phe Met Ser Val Met Ala Phe Ala Cys Phe Val  
 210 215 220  
 Gly Ile Ala Phe Ser Tyr Gly Gln Ile Phe Ser Thr Val Leu Arg Met  
 225 230 235 240  
 Pro Ser Ala Glu Gly Arg Ser Lys Val Phe Ser Thr Cys Leu Pro His  
 245 250 255  
 Leu Phe Val Val Ser Phe Phe Leu Ser Thr Gly Ile Cys Ala Tyr Leu  
 260 265 270  
 Lys Pro Thr Ser Asp Ser Pro Thr Ala Leu Asp Leu Met Leu Ser Ile  
 275 280 285  
 Phe Tyr Thr Leu Leu Pro Pro Thr Leu Asn Pro Val Ile Tyr Ser Leu  
 290 295 300  
 Arg Asn Glu Ser Leu Lys Arg Ala Leu Lys Lys Leu Leu Ser Glu  
 305 310 315 320  
 Glu Phe Ile Arg Lys Lys Cys Leu Phe Tyr Phe Xaa Cys Leu Leu Thr  
 325 330 335  
 Leu

&lt;210&gt; 2375

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M127 8574266-13-1078-2817 1563-564)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(333)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2375

Leu Ser Phe Leu Ser Gly Asp Glu Tyr Gln Leu Leu Ser Val Gln Glu  
 1 5 10 15  
 Asn Ser Leu Ser Val Lys Arg Phe Ala Phe Ser Lys Phe Ser Glu Val  
 20 25 30  
 Pro Gly Glu Cys Phe Leu Leu Phe Thr Leu Ile Leu Leu Met Phe Leu  
 35 40 45  
 Val Ser Leu Thr Gly Asn Glu Leu Ile Val Ile Ala Ile Cys Thr Ser  
 50 55 60  
 Pro Ala Leu His Thr Pro Met Tyr Phe Phe Leu Ala Asn Leu Ser Leu  
 65 70 75 80  
 Leu Glu Ile Gly Tyr Thr Cys Ser Val Ile Pro Lys Met Leu Gln Ser  
 85 90 95  
 Leu Val Ser Glu Ala Arg Glu Ile Ser Arg Glu Gly Cys Ala Thr Gln  
 100 105 110  
 Met Phe Phe Thr Phe Phe Gly Ile Thr Glu Cys Cys Leu Leu Ala  
 115 120 125  
 Ala Met Ala Tyr Asp Arg Cys Met Ala Ile Cys Ser Pro Leu His Tyr

130	135	140
Ala Thr Arg Met Ser	His Gly Val Cys Ala	His Leu Ala Ile Val Ser
145	150	155
Trp Gly Met Gly Cys	Ile Val Gly Leu Gly	Gln Thr Asn Phe Ile Phe
165	170	175
Ser Leu Asn Phe Cys	Gly Pro Cys Glu Ile	Asp His Phe Phe Cys Asp
180	185	190
Leu Pro Pro Val Leu	Ala Leu Ala Cys Gly	Asp Thr Ser Gln Asn Glu
195	200	205
Ala Ala Ile Phe Val	Ala Ala Ile Leu Cys	Ile Ser Ser Pro Phe Leu
210	215	220
Leu Ile Ile Tyr Ser	Tyr Val Arg Ile Leu	Val Ala Val Leu Val Met
225	230	235
Pro Ser Pro Glu Gly	Arg His Lys Ala Leu	Ser Thr Cys Ser Ser His
245	250	255
Leu Leu Val Val Thr	Leu Phe Phe Gly Ser	Gly Ser Ile Thr Tyr Leu
260	265	270
Arg Pro Lys Ser Ser	His Leu Pro Gly Met	Asp Lys Leu Leu Ala Leu
275	280	285
Phe Tyr Thr Ala Val	Thr Ser Met Leu Asn	Pro Ile Ile Tyr Ser Leu
290	295	300
Arg Asn Lys Glu Val	Lys Thr Ala Leu Arg	Lys Thr Leu Ser Leu Lys
305	310	315
Thr Ser Arg Ala Ile	Asn Arg Xaa Gln Asn	Leu Ala Glu
325	330	

&lt;210&gt; 2376

&lt;211&gt; 356

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M129 8574266-7-9797-11994 2006-942)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(356)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2376

Asn Phe Phe Leu Gln	Ile Xaa Ser Gln	Asn Tyr Gln Xaa	Gly Xaa Leu
1	5	10	15
Lys Glu Ile Met Thr	Lys Ser Asn Phe	Ser Ser Pro Ile	Cys Phe Arg
20	25	30	
Leu Pro Gly Phe Ser	Asp His Leu Xaa	Leu Asp Xaa Thr	Leu Phe Leu
35	40	45	
Ala Thr Ser Val Ile	Asp Ile Val Met	Leu Thr Gln Asn	Thr Met Ile
50	55	60	
Ile Leu Val Ser Phe	Leu Asn Ser Arg	Leu Gln Thr Pro	Met Tyr Phe
65	70	75	80
Phe Leu Ser Asn Phe	Phe Phe Leu Asp	Leu Cys Phe Met	Thr Asn Val
85	90	95	
Leu Xaa Ile Val Xaa	Thr Ser Lys Gly	Pro Glu Lys Ile	Ile Ser Cys
100	105	110	
Cys Ala Ile His Val	Tyr Ile Val Leu	Xaa Leu Asp Phe	Thr Lys Cys
115	120	125	
Val Leu Leu Thr Met	Met Ala Tyr Asn	Pro Val Thr Pro	Ile Cys Trp
130	135	140	
Pro Leu Xaa Tyr Pro	Thr Thr His Pro	Lys Phe Val Asp	Ile His Pro
145	150	155	160
Lys Phe Pro Xaa Lys	Pro Ala Ala Leu	Ala Trp Ile Cys	Ser Phe Met
165	170	175	
Val Phe Thr Ile Gln	Thr Thr Leu Val	Phe Gln Leu Ser	Leu Cys Ser
180	185	190	

His His Arg Met Asn Asp Phe Leu Cys Val Arg Asn Pro Pro Leu Val  
 195 200 205  
 Lys Ile Thr Phe Met Asp Thr Thr Ser Leu Glu Lys His Ile Ser Val  
 210 215 220  
 Phe Thr Phe Leu Xaa Ala Val Ile Pro Cys Gly Glu Tyr Ser Ile Ile  
 225 230 235 240  
 Tyr Leu Leu Val Leu Leu Lys Val Trp Leu Lys Ile Lys Phe Thr Gly  
 245 250 255  
 Arg Met Lys Thr Phe Gly Ser Cys Gly Phe His Leu Met Ala Ile Val  
 260 265 270  
 Leu Phe Phe Gly Asn Glu Ser Ser Val Tyr Met Val Tyr Met Tyr Pro  
 275 280 285  
 Arg Ala Asn Ala Cys Gln Tyr Arg Lys Phe Ser Val Phe Tyr Met Ile  
 290 295 300  
 Val Thr Pro Ser Ile Asn Pro Leu Ile Tyr Leu Arg Asn Lys Glu Phe  
 305 310 315 320  
 Arg Trp Ala Val Gln Arg Leu Val Thr Arg Asp Pro Ser Xaa Gly Lys  
 325 330 335  
 Ile Arg Gln Ser Leu Thr Ile Phe Gln Ala Phe Gly Ile Gly Arg His  
 340 345 350  
 Tyr Ile Tyr Cys  
 355

&lt;210&gt; 2377

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M130 8574266-9-11171-19240 5578-6546)

&lt;400&gt;2377

Val Arg Ile Leu Thr Val Asn Thr Asn Met Trp Ile Asn Asn Gln Ser  
 1 5 10 15  
 Ser Val Asp Asp Phe Ile Leu Leu Gly Phe Ser Asp Arg Pro Trp Leu  
 20 25 30  
 Glu Thr Pro Leu Phe Val Ile Phe Leu Val Ala Tyr Ile Phe Ala Leu  
 35 40 45  
 Phe Gly Asn Ile Ser Ile Ile Leu Val Ser Arg Leu Asp Pro Gln Leu  
 50 55 60  
 Asp Ser Pro Met Tyr Phe Val Ser Asn Leu Ser Leu Leu Asp Leu  
 65 70 75 80  
 Cys Tyr Thr Thr Ser Thr Val Pro Gln Met Leu Val Asn Leu Arg Gly  
 85 90 95  
 Pro Glu Lys Thr Ile Ser Tyr Gly Gly Cys Val Ala Gln Leu Tyr Ile  
 100 105 110  
 Phe Leu Ala Leu Gly Ser Thr Glu Cys Ile Leu Leu Ala Ile Met Ala  
 115 120 125  
 Phe Asp Arg Phe Ala Ala Ile Cys Arg Pro Leu His Tyr Pro Ile Ile  
 130 135 140  
 Met Asn Gln Lys Arg Cys Ile His Met Ala Thr Gly Thr Trp Ile Ser  
 145 150 155 160  
 Gly Phe Ala Asn Ser Leu Val Gln Ser Thr Leu Thr Val Val Ala Pro  
 165 170 175  
 Arg Cys Gly Gln Arg Val Ile Asp His Phe Phe Cys Glu Val Pro Ala  
 180 185 190  
 Leu Leu Lys Leu Ala Cys Thr Asp Thr Ser Val Asn Glu Ala Glu Leu  
 195 200 205  
 Asn Val Leu Gly Ala Leu Leu Leu Leu Val Pro Leu Ser Leu Ile Leu  
 210 215 220  
 Gly Thr Tyr Val Phe Ile Ala Gln Ala Val Leu Lys Leu Arg Ser Ala  
 225 230 235 240  
 Glu Ser Arg Arg Lys Ala Phe Asn Thr Cys Ala Ser His Leu Leu Val  
 245 250 255



Val Ser Leu Phe Tyr Phe Thr Ala Ile Ser Met Tyr Val Gln Pro Pro  
 260 265 270  
 Ser Ser Tyr Ser His Glu Arg Gly Lys Ile Met Ala Leu Phe Tyr Gly  
 275 285  
 Ile Val Thr Pro Thr Leu Asn Pro Phe Ile Tyr Thr Leu Arg Asn Lys  
 290 295 300  
 Asp Val Lys Ala Ala Leu Arg Arg Ala Leu Thr Lys Glu Phe Trp Val  
 305 310 315 320  
 Lys Ala Arg

&lt;210&gt; 2378

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M131 8574266-9-30686-36974 2322-3308)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(329)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2378

Leu Leu Ser Val Val Phe Phe Xaa Leu Phe Leu Asn Arg Val Ser Arg  
 1 5 10 15  
 Val Ile Ile Met Asn Val Ser Phe Lys Thr Gly Phe Leu Leu Met Gly  
 20 25 30  
 Phe Ser Asp Glu Arg Asn Leu Gln Ile Leu His Ala Val Leu Phe Leu  
 35 40 45  
 Ile Thr Tyr Leu Leu Ala Ile Met Gly Asn Leu Leu Ile Ile Thr Ile  
 50 55 60  
 Ile Thr Leu Asp Gln Arg Leu His Ser Pro Met Tyr Tyr Phe Leu Lys  
 65 70 75 80  
 His Leu Ser Phe Leu Asp Leu Cys Phe Ile Ser Val Thr Val Pro Gln  
 85 90 95  
 Ser Ile Ala Asn Ser Leu Met Asn Asn Gly Phe Ile Ser Leu Gly Gln  
 100 105 110  
 Cys Met Leu Gln Val Phe Phe Phe Ile Ala Leu Ala Ser Ser Glu Val  
 115 120 125  
 Ala Ile Leu Thr Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Arg  
 130 135 140  
 Pro Leu Gln Tyr Glu Thr Ile Met Asp Pro His Ala Cys Lys Cys Ala  
 145 150 155 160  
 Val Ile Ala Val Trp Met Ala Gly Gly Leu Ser Gly Leu Leu His Thr  
 165 170 175  
 Gly Val Asn Phe Ser Ile Pro Leu Cys Gly Lys Arg Ile Ile His Gln  
 180 185 190  
 Phe Phe Cys Asp Ile Pro Gln Met Leu Lys Leu Ala Cys Ser Tyr Glu  
 195 200 205  
 Phe Ile Asn Glu Ile Ala Val Ala Ala Phe Thr Thr Ser Thr Ala Phe  
 210 215 220  
 Val Cys Leu Ile Ala Ile Val Phe Ser Tyr Thr Gln Ile Phe Ser Thr  
 225 230 235 240  
 Val Met Arg Ile Pro Ser Ala Asp Ser Arg Thr Lys Val Phe Ser Thr  
 245 250 255  
 Cys Leu Pro His Leu Phe Val Val Met Phe Phe Leu Ser Ala Ala Gly  
 260 265 270  
 Phe Glu Phe Leu Arg Pro Pro Ser Asp Ser Leu Ser Ala Met Asp Leu  
 275 280 285  
 Val Phe Ser Ile Phe Tyr Thr Val Ile Pro Pro Thr Leu Asn Pro Leu  
 290 295 300  
 Ile Tyr Ser Leu Arg Asn Glu Ala Met Lys Ala Ala Leu Arg Lys Val

305                      310                      315                      320  
 Leu Ser Lys Glu Glu Phe Ser Arg Arg  
                                  325

<210> 2379

<211> 324

<212> PRT

<213> Mus musculus (M132 8574266-9-4118-8767 2921-3891)

<220>

<221> VARIANT

<222> (1)...(324)

<223> Xaa = Any Amino Acid

<400>2379

Cys	Asn	Ile	Phe	Leu	Leu	Val	Leu	His	Gln	Val	Thr	Gly	Met	Ile	Asn
1				5					10					15	
Ser	Ser	Val	Ser	Ser	Asp	Phe	Ile	Leu	Val	Gly	Phe	Ser	Asp	Gln	Pro
			20					25					30		
Gln	Leu	Glu	Arg	Arg	Leu	Phe	Ile	Val	Val	Leu	Ile	Ser	Tyr	Leu	Leu
	35					40						45			
Thr	Leu	Val	Gly	Asn	Thr	Ile	Ile	Ile	Leu	Ile	Ser	Ser	Ile	Asp	Ser
	50				55						60				
Lys	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr	His	Leu	Ser	Phe	Val
65					70					75				80	
Asp	Ile	Cys	Phe	Thr	Ser	Ile	Val	Pro	Gln	Leu	Leu	Trp	Asn	Leu	
			85					90					95		
Lys	Gly	Pro	Ala	Lys	Thr	Ile	Thr	Ala	Val	Gly	Cys	Ala	Val	Gln	Leu
		100					105					110			
Tyr	Val	Ser	Leu	Thr	Leu	Gly	Ser	Thr	Glu	Cys	Ile	Leu	Leu	Ala	Val
	115					120					125				
Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu	His	Tyr	Val
	130				135					140					
Ala	Val	Met	Asn	Pro	Gln	Leu	Cys	Arg	Ala	Leu	Ala	Gly	Ile	Ser	Trp
145					150					155					160
Leu	Ser	Gly	Ile	Gly	Asn	Ala	Leu	Ile	Gln	Gly	Thr	Ile	Thr	Leu	Trp
			165						170					175	
Leu	Pro	Arg	Cys	Gly	His	Leu	Trp	Leu	His	His	Phe	Phe	Cys	Glu	Val
		180						185					190		
Pro	Ser	Met	Ile	Lys	Leu	Ala	Cys	Val	Asp	Ile	His	Ala	Asn	Glu	Val
	195					200						205			
Gln	Leu	Phe	Val	Ala	Ser	Leu	Val	Leu	Leu	Leu	Leu	Pro	Leu	Ala	Leu
	210					215						220			
Ile	Leu	Thr	Ser	Tyr	Gly	His	Ile	Ala	Lys	Ala	Val	Ile	Arg	Ile	Lys
225					230					235					240
Ser	Ser	Gln	Ala	Trp	Arg	Arg	Ala	Leu	Gly	Thr	Cys	Gly	Ser	His	Leu
			245						250					255	
Met	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Ile	Thr	Ala	Ile	Tyr	Ile	Gln
		260					265						270		
Pro	Asn	Ser	Ser	Tyr	Ala	His	Thr	His	Gly	Lys	Phe	Ile	Ser	Leu	Phe
	275						280					285			
Tyr	Thr	Val	Met	Thr	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
	290					295					300				
Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu	Gly	Arg	Leu	Phe	Asn	Arg	Ala	Ser
305					310					315					320
Gly	Val	Xaa	Gln												

<210> 2380

<211> 341

<212> PRT

<213> Mus musculus (M133 8574277-10-1-1870 1597-577)

<220>

<221> VARIANT

<222> (1)...(341)

<223> Xaa = Any Amino Acid

<400>2380

Val	Leu	Leu	Asn	His	Thr	Phe	Ile	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Val	1	5	10	15
Thr	Asp	Ile	Gln	Glu	Leu	Asn	Pro	Ile	Leu	Phe	Val	Met	Val	Leu	Ala	20	25	30	
Met	Tyr	Phe	Ile	Asn	Val	Phe	Gly	Asn	Gly	Ala	Ile	Met	Met	Ile	Val	35	40	45	
Ile	Leu	Asp	Ser	Arg	Leu	Tyr	Ser	Pro	Met	Tyr	Phe	Leu	Gly	Asn	50	55	60		
Leu	Ala	Cys	Leu	Asp	Ile	Cys	Phe	Ser	Thr	Val	Thr	Val	Pro	Lys	Met	65	70	75	80
Leu	Glu	Asn	Phe	Phe	Ser	Thr	Ser	Lys	Ala	Ile	Ser	Phe	Leu	Gly	Cys	85	90	95	
Ile	Thr	Gln	Leu	His	Phe	Phe	His	Phe	Leu	Gly	Cys	Thr	Asp	Ala	Leu	100	105	110	
Leu	Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg	Pro	115	120	125	
Leu	His	Tyr	Pro	Ser	Ile	Met	Asn	Arg	Gln	Val	Cys	Ile	Gln	Val	Ala	130	135	140	
Ala	Thr	Ile	Trp	Ala	Ile	Pro	Phe	Leu	His	Ala	Leu	Val	His	Ser	Ile	145	150	155	160
Leu	Thr	Ser	Gln	Leu	Asn	Phe	Cys	Gly	Ser	Asn	Arg	Ile	His	His	Phe	165	170	175	
Phe	Cys	Asp	Val	Lys	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Gly	Asn	Thr	Glu	180	185	190	
Leu	Asn	Arg	Trp	Leu	Leu	Asn	Thr	Leu	Ala	Gly	Thr	Ile	Gly	Ile	Gly	195	200	205	
Leu	Phe	Phe	Leu	Thr	Phe	Leu	Ser	Tyr	Phe	Tyr	Ile	Val	Thr	Tyr	Leu	210	215	220	
Phe	Leu	Lys	Thr	His	Ser	Cys	Ser	Met	Leu	His	Lys	Ala	Leu	Ser	Thr	225	230	235	240
Cys	Ala	Ser	His	Phe	Met	Val	Val	Met	Ile	Phe	Tyr	Ala	Pro	Val	Leu	245	250	255	
Phe	Ile	Tyr	Ile	Asn	Pro	Asp	Ser	Gly	Ser	Ser	Leu	Glu	Lys	Asp	Arg	260	265	270	
Ile	Ile	Ala	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu	275	280	285	
Ile	Tyr	Ala	Leu	Arg	Asn	Lys	Glu	Val	Arg	Cys	Ala	Leu	Asn	Arg	Lys	290	295	300	
Leu	Arg	Ile	Leu	Ile	Xaa	Leu	Gly	Arg	Asn	Leu	Val	Ser	Tyr	Phe	Val	305	310	315	320
Ile	Ser	Gln	His	Lys	Gln	Leu	Leu	Xaa	Lys	Ser	Met	Cys	Glu	Ile	Ser	325	330	335	
Xaa	Phe	Xaa	Ile	Cys	340														

<210> 2381

<211> 284

<212> PRT

<213> Mus musculus (M136 8574277-13-1-992 974-124)

<220>

<221> VARIANT

<222> (1)...(284)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2381

Cys Ile Tyr Ile Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val  
 1 5 10 15  
 Cys Ile Ser Ile Cys Thr Tyr Leu His Ile Xaa Ile His Met Cys Val  
 20 25 30  
 Gln Val Val Ile Lys Leu Lys Val Lys Xaa Val Thr Trp Lys Glu Val  
 35 40 45  
 Xaa Lys Met Ser Val Glu Lys Arg Thr Gln Ser Arg Gln Lys Ser Gly  
 50 55 60  
 Tyr Leu Ala Asn Cys Phe Leu Gln Ser Phe Ile Leu Gly Ser Val Asp  
 65 70 75 80  
 Arg Asn Ile Cys Leu Leu Ile Val Met Val Tyr Asp His Tyr Leu Thr  
 85 90 95  
 Ile Cys His His Leu Xaa Tyr Pro Phe Leu Met Gly Pro Leu Trp Gly  
 100 105 110  
 Leu Gly Phe Gly Leu Thr Thr Ser Phe Val Val Asp Glu Leu Ile Val  
 115 120 125  
 Ala Leu Met Ala Gln Leu Arg Phe Cys Val Pro Lys Gln Ile Asp His  
 130 135 140  
 Phe Tyr Tyr Asp Phe Ser Pro Leu Val Val Leu Ala Tyr Thr Asp Thr  
 145 150 155 160  
 Gly Leu Val Gln Val Thr Thr Phe Val Leu Phe Val Val Phe Leu Thr  
 165 170 175  
 Val Pro Phe Gly Leu Val Leu Ile Ser Cys Ala Gln Ile Ala Val Thr  
 180 185 190  
 Val Leu Arg Val Pro Ser Arg Thr Arg Arg Asn Lys Ala Phe Ser Thr  
 195 200 205  
 Cys Ser Ser His Leu Asp Glu Val Ser Thr Phe Tyr Gly Ser Leu Met  
 210 215 220  
 Val Trp Tyr Thr Glu Pro Ser Ala Val His Ser Gln Ile Leu Ser Lys  
 225 230 235 240  
 Val Ile Ala Leu Leu Tyr Thr Val Val Thr Thr Ile Phe Asp Pro Gly  
 245 250 255  
 Ile Tyr Thr Leu Arg Asn Gln Glu Val Gln Gln Ser Leu Arg Arg His  
 260 265 270  
 Leu Tyr Cys Lys Pro Thr Glu Met Xaa Pro Lys Arg  
 275 280

&lt;210&gt; 2382

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M143 8574277-22-875-4053 855-1796)

&lt;400&gt;2382

Tyr Pro Met Gly Ile Leu Ser Thr Gly Asn Gln Thr Val Thr Glu Phe  
 1 5 10 15  
 Val Leu Leu Gly Phe His Glu Val Pro Gly Leu His Leu Leu Phe Phe  
 20 25 30  
 Ser Val Phe Thr Ile Leu Tyr Ala Ser Ile Ile Thr Gly Asn Met Leu  
 35 40 45  
 Ile Ala Val Val Val Val Ser Ser Gln Arg Leu His Thr Pro Met Tyr  
 50 55 60  
 Phe Phe Leu Val Asn Leu Ser Phe Ile Glu Ile Val Tyr Thr Ser Thr  
 65 70 75 80  
 Val Val Pro Lys Met Leu Glu Gly Phe Leu Gln Glu Ala Thr Ile Ser  
 85 90 95  
 Val Ala Gly Cys Leu Leu Gln Phe Phe Val Phe Gly Ser Leu Ala Thr  
 100 105 110  
 Asp Glu Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Leu Ala

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      115              120              125
Ile Cys His Pro Leu Arg Tyr Pro His Leu Met Gly Pro Gln Trp Cys
 130              135              140
Leu Gly Leu Val Leu Thr Val Trp Leu Ser Gly Phe Met Val Asp Gly
145              150              155              160
Leu Val Val Ala Leu Met Ala Gln Leu Arg Phe Cys Gly Pro Asn Leu
      165              170              175
Val Asp His Phe Tyr Cys Asp Phe Ser Pro Leu Met Val Leu Ala Cys
      180              185              190
Ser Asp Thr Gln Val Ala Gln Val Thr Thr Phe Val Leu Ser Val Val
      195              200              205
Phe Leu Thr Val Pro Phe Gly Leu Val Leu Ile Ser Tyr Ala Gln Ile
      210              215              220
Val Val Thr Val Leu Arg Val Pro Ser Gly Thr Arg Arg Thr Lys Ala
225              230              235              240
Phe Ser Thr Cys Ser Ser His Leu Ala Val Val Ser Thr Phe Tyr Gly
      245              250              255
Thr Leu Met Val Leu Tyr Ile Val Pro Ser Ala Val His Ser Gln Leu
      260              265              270
Leu Ser Lys Val Ile Ala Leu Leu Tyr Thr Val Val Thr Pro Ile Phe
      275              280              285
Asn Pro Val Ile Tyr Thr Leu Arg Asn Gln Glu Val Gln Gln Ala Leu
      290              295              300
Arg Arg Leu Leu Tyr Cys Lys Pro Thr Glu
305              310

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&lt;210&gt; 2383

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M144 8574277-30-676-1123 424-104)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(107)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2383

```

Ser Gly Val Leu Gly Asn Lys Leu Ser Leu Cys Leu Xaa Val Xaa Arg
 1              5              10              15
Val Phe Phe Ser Cys Gly Xaa Val Pro Ser Ala Gln Gly Lys Arg Lys
      20              25              30
Ser Leu Ala Thr Cys Ser Ser His Leu Ser Val Val Leu Phe Tyr
      35              40              45
Ser Thr Val Phe Ala Thr Tyr Leu Lys Pro Pro Ser Thr Ser His Ser
      50              55              60
Ser Ala Glu Val Val Ala Ala Val Met Tyr Thr Leu Val Thr Pro Thr
      65              70              75              80
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ser Ser
      85              90              95
Leu Arg Lys Ile Leu Asn Met Asp Lys Phe Gln
      100              105

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&lt;210&gt; 2384

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M148 8574277-5-2944-4486 2-698)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(232)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2384

```

Lys Ser Leu Ala Thr Leu Ala Gly Cys Leu Leu Gln Phe Leu Thr Phe
 1           5           10           15
Thr Ser Leu Asp Ala Asp Glu Tyr Phe Leu Leu Thr Leu Met Ala His
          20           25           30
Asp His Cys Leu Ala Ile Phe Tyr Ser Leu Xaa Tyr Pro Arg Leu Met
          35           40           45
Arg Pro Gln Trp Cys Leu Gly Leu Val Ile Ile Val Trp Leu Ser Gly
          50           55           60
Phe Met Glu Ala Gly Leu Val Val Ala Leu Thr Ala Gln Leu Arg Phe
65           70           75           80
Cys Gly Pro Asn Leu Ile Asp His Phe Tyr Cys Asp Phe Ser Pro Leu
          85           90           95
Met Ile Leu Ala Cys Ser Asp Thr Xaa Val Ala Gln Met Thr Thr Phe
          100          105          110
Val Leu Phe Val Val Phe Leu Pro Val Leu Ser Gly Leu Ile Leu Met
          115          120          125
Ser Tyr Ala Gln Phe Val Val Ile Val Leu Arg Ile Pro Ser Gly Ala
          130          135          140
Arg Arg Thr Lys Ala Phe Phe Thr Cys Ser Ser His Leu Ala Met Met
145          150          155          160
Phe Thr Phe Tyr Gly Ser Leu Met Val Trp Tyr Thr Ala Pro Ser Ala
          165          170          175
Val Leu Ser Leu Gln Leu Leu Ser Lys Val Ile Ala Leu Leu Tyr Thr
          180          185          190
Val Phe Ala Pro Ile Phe Asn Ser Val Ile Tyr Thr Leu Arg Asn Leu
          195          200          205
Asp Met Gln Lys Ala Leu Arg Arg Leu Leu Tyr Cys Lys Ser Thr Glu
210          215          220
Met Xaa Pro Lys Lys Glu Gly Ser
225          230

```

&lt;210&gt; 2385

&lt;211&gt; 326

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M149 8574277-6-4252-5644 1059-82)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(326)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2385

```

Tyr Ile Val Phe Thr Pro Ile Ser Ser Xaa Asn Thr Arg Pro Thr Met
 1           5           10           15
Asn Cys Ser Gln Ala Pro Thr Phe Ile Leu Leu Gly Leu Ser Ser Asp
          20           25           30
Ala Glu Lys Trp Gln Pro Leu Phe Ser Ile Phe Leu Val Leu Tyr Leu
          35           40           45
Leu Gly Leu Leu Gly Asn Leu Leu Leu Leu Ala Ile Gly Thr Asp
          50           55           60
Val His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Gln Leu Ser Leu
65           70           75           80
Val Asp Leu Cys Phe Ile Thr Thr Thr Ala Pro Lys Met Leu Glu Ala
          85           90           95
Leu Trp Thr Gly Asp Gly Ser Ile Ser Phe Ser Gly Cys Leu Thr Gln
          100          105          110
Leu Tyr Phe Phe Ala Val Phe Ala Asp Met Asp Asn Leu Leu Leu Ala
          115          120          125
Val Met Ala Ile Asp Arg Tyr Ala Ala Ile Cys His Pro Leu Leu Tyr

```

130	135	140
Pro Leu Leu Met Thr	Pro Cys Arg Cys Arg	Val Leu Val Ser Gly Ser
145	150	155
Trp Gly Val Ala His	Cys Val Ser Leu Thr	His Thr Leu Leu Phe Ser
165	170	175
Lys Leu Tyr Phe His	Asn Asn Gln Glu Ile	Pro His Phe Phe Cys Asp
180	185	190
Phe Gly Pro Leu Leu Leu Leu	Ser Cys Ser Asp Thr	Tyr Leu Asn Glu
195	200	205
Ser Leu Met Met Ala Leu Ser	Gly Leu Leu Ala Ile	Ser Ala Phe Leu
210	215	220
Cys Ile Val Ser Ser Tyr	Gly Cys Ile Phe Tyr	Ala Val Ala Lys Val
225	230	235
Pro Ser Ala Gln Gly Lys	Arg Lys Ala Leu Ala	Thr Cys Ser Ser His
245	250	255
Leu Ser Val Val Leu Leu Phe	Tyr Ser Thr Val Phe	Ala Thr Tyr Leu
260	265	270
Lys Pro Pro Ser Ser Ser His	Ser Ser Gln Glu Val	Val Ala Ala Val
275	280	285
Met Tyr Thr Leu Val Thr	Pro Thr Leu Asn Pro	Phe Ile Tyr Ser Leu
290	295	300
Arg Asn Lys Asp Val Lys	Ser Ser Leu Arg Arg	Ile Leu Asn Met Val
305	310	315
Lys Ser Gln Asp Xaa Gly		
325		

&lt;210&gt; 2386

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M152 8574277-7-18987-20418 1032-73)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(321)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2386

Cys Gly Leu Ser Cys Ser Gln Arg Ser Arg Arg Asn Val Leu Ile Ser	
1	5 10 15
Leu Xaa Xaa Leu Asn Phe Phe Leu Met Gly Phe Ser Arg Lys Leu Glu	
20	25 30
Val Glu His Asn Phe Ile Leu Ala Leu Gly Leu Val Ile Leu Ile Ala	
35	40 45
Asn Val Phe Ile Ile Ala Ala Ile Ser Leu Glu Tyr His Leu Cys Ser	
50	55 60
Leu Arg His Phe Leu Leu Glu Gln Leu Phe Cys Leu Asp Leu Cys Tyr	
65	70 75 80
Ile Ser Met Ile Val Leu Ser Thr Ile Lys Ser Ile Cys Arg Ser Phe	
85	90 95
Met Tyr Ser Ala Tyr Ile Ser Leu Ile Glu Cys Thr Leu Gln Gly Phe	
100	105 110
Ala Phe Thr Leu Cys Ser Tyr Thr Ser Met Ala Ile Leu Thr Val Met	
115	120 125
Ser Cys His Cys Tyr Val Ile Met Cys Tyr Lys Val Ile Ile Ser Val	
130	135 140
Ser Leu Cys Met His Lys Val Leu Ala Val Trp Ala Ser Gly Cys Gly	
145	150 155 160
Ile Asn Phe Gly Val Met His Thr Ala Val Asn Phe Ser Ile Ser Leu	
165	170 175
Cys Gly Ala Ser Val Ile His Xaa Phe Cys Asn Val Leu Leu Val Leu	
180	185 190

Lys Leu Ser Cys Ser Asn Asp Cys Val Ser Glu Leu Ser Ile Ile Gly  
 195 200 205  
 Phe Pro Thr Cys Arg His Phe Ile Ser Ile Ser Phe Ala Tyr Glu His  
 210 215 220  
 Ile Leu Ser Pro Glu Leu Arg Met Pro Ser Val Lys Gly Arg Thr Arg  
 225 230 235 240  
 Val Phe Ser Thr Cys Leu Cys His Ile Ser Val Val Ile Leu Phe Ile  
 245 250 255  
 Pro Thr Gly Val Phe Glu Phe Leu Asn Pro His Ser Lys Ser Pro Thr  
 260 265 270  
 Xaa Ile Leu His Xaa Thr Leu Phe Leu Val Phe His Thr Phe Leu Ser  
 275 280 285  
 Ser Thr Leu Asn Pro Glu Ile Asn Ser Leu Arg Asn Glu Ala Thr Glu  
 290 295 300  
 His His Ser Lys Glu Asn Val Ser Leu Phe Ile Ser Thr Ile Ser Ser  
 305 310 315 320  
 Leu

&lt;210&gt; 2387

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M154 8575572-1-103679-105172 492-1471)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(327)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2387

His Xaa Met Gly Ala Leu Asn Gln Thr Arg Val Thr Glu Phe Ile Phe  
 1 5 10 15  
 Leu Gly Leu Thr Asp Asn Trp Val Leu Glu Ile Leu Phe Phe Val Pro  
 20 25 30  
 Phe Thr Val Thr Tyr Met Leu Thr Leu Leu Gly Asn Phe Leu Ile Val  
 35 40 45  
 Val Thr Ile Val Phe Thr Pro Arg Leu His Asn Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Ser Asn Leu Ser Phe Ile Asp Ile Cys His Ser Ser Val Thr Val  
 65 70 75 80  
 Pro Lys Met Leu Glu Gly Leu Leu Leu Glu Arg Lys Thr Ile Ser Phe  
 85 90 95  
 Asp Asn Cys Ile Ala Gln Leu Phe Phe Leu His Leu Phe Ala Cys Ser  
 100 105 110  
 Glu Ile Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Val Ala Ile  
 115 120 125  
 Cys Ile Pro Leu His Tyr Ser Asn Val Met Asn Met Lys Val Cys Val  
 130 135 140  
 Gln Leu Val Phe Ala Leu Trp Leu Gly Gly Thr Ile His Ser Leu Val  
 145 150 155 160  
 Gln Thr Phe Leu Thr Ile Arg Leu Pro Tyr Cys Gly Pro Asn Ile Ile  
 165 170 175  
 Asp Ser Tyr Phe Cys Asp Val Pro Pro Val Ile Lys Leu Ala Cys Thr  
 180 185 190  
 Asp Thr Tyr Leu Thr Gly Ile Leu Ile Val Ser Asn Ser Gly Thr Ile  
 195 200 205  
 Ser Leu Val Cys Phe Leu Ala Leu Val Thr Ser Tyr Thr Val Ile Leu  
 210 215 220  
 Phe Ser Leu Arg Lys Lys Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser  
 225 230 235 240  
 Thr Cys Ser Ala His Phe Met Val Val Thr Leu Phe Phe Gly Pro Cys



Met 1	Glu	Lys	Ala	Val 5	Leu	Ile	Asn	Gln	Thr 10	Ser	Val	Met	Ser	Phe 15	Arg
Leu	Thr	Gly	Leu 20	Ser	Thr	Asn	Pro	Lys 25	Val	Gln	Met	Ala	Ile 30	Phe	Phe
Ile	Phe	Leu 35	Ile	Phe	Tyr	Val	Leu 40	Thr	Leu	Val	Gly	Asn 45	Ile	Leu	Ile
Val	Val 50	Thr	Ile	Ile	His	Asp 55	His	Arg	Leu	His	Thr 60	Pro	Met	Tyr	Phe
Phe 65	Leu	Ser	Asn	Leu 70	Ser	Phe	Ile	Asp	Val	Cys 75	His	Ser	Thr	Val	Thr
Val	Pro	Lys	Met	Leu 85	Ser	Asp	Thr	Phe	Ser 90	Glu	Glu	Lys	Leu	Ile 95	Ser
Phe	Asp	Asp	Cys 100	Val	Val	Gln	Ile	Phe 105	Phe	Leu	His	Leu	Phe 110	Ala	Cys
Thr	Glu	Ile 115	Phe	Leu	Leu	Thr	Val 120	Met	Ala	Tyr	Asp	Arg	Tyr 125	Val	Ala
Ile	Cys 130	Lys	Pro	Leu	Arg	Tyr 135	Met	Thr	Ile	Met	Asn 140	Trp	Lys	Val	Cys
Met 145	Val	Leu	Gly	Gly 150	Ala	Met	Trp	Thr	Ala	Gly 155	Thr	Ile	His	Ser	Ile
Ser	Phe	Thr	Ser	Leu 165	Thr	Ile	Lys	Leu	Pro 170	Tyr	Cys	Gly	Pro	Asn 175	Glu
Leu	Asp	Ser	Phe 180	Phe	Cys	Asp	Val	Pro 185	Gln	Val	Ile	Glu	Leu 190	Ala	Cys
Thr	Asp	Thr 195	Arg	Ile	Thr	Glu	Ile 200	Leu	Val	Val	Ser	Asn 205	Ser	Gly	Met
Ile	Ser 210	Met	Val	Cys	Phe	Val 215	Ile	Ile	Val	Val	Ser 220	Tyr	Ala	Val	Ile
Leu 225	Val	Ser	Leu	Arg	Gln 230	Gln	Ile	Ser	Asp	Gly 235	Lys	Arg	Lys	Ala	Leu
Ser	Thr	Cys	Ala	Ala 245	His	Leu	Thr	Val	Val 250	Thr	Leu	Phe	Leu	Gly 255	His
Cys	Ile	Phe	Ile 260	Tyr	Ser	Arg	Pro	Ala 265	Ile	Ser	Leu	Pro	Glu 270	Asp	Lys
Ile	Val	Ser 275	Ala	Phe	Phe	Thr	Ala 280	Ile	Thr	Pro	Leu	Leu 285	Asn	Pro	Ile
Ile	Tyr 290	Thr	Phe	Arg	Asn 295	Glu	Asp	Met	Lys	Ser	Ala 300	Leu	Lys	Lys	Leu

Ile Arg Arg Lys Glu Gly Lys Glu Lys Xaa Lys Cys Ile Ser Ser Leu  
 305 310 315 320  
 Gly Phe Leu Val Ile Xaa Ile Lys Glu Ala  
 325 330

<210> 2389

<211> 331

<212> PRT

<213> Mus musculus (M158 8575572-1-18114-22131 1498-507)

<220>

<221> VARIANT

<222> (1)...(331)

<223> Xaa = Any Amino Acid

<400>2389

Cys Leu Ser Ala Ser Leu Asp Ile Ser Lys Met Glu Arg Ile Asn Tyr  
 1 5 10 15  
 Thr Val Leu Thr Glu Phe Ile Leu Thr Gly Val Pro His Pro Pro Arg  
 20 25 30  
 Leu Arg Thr Phe Leu Phe Val Phe Phe Leu Leu Ile Tyr Ile Leu Thr  
 35 40 45  
 Gln Leu Gly Asn Ala Leu Ile Leu Ile Thr Val Cys Ala Asp Thr Gln  
 50 55 60  
 Leu His Ala Arg Pro Met Tyr Ile Phe Leu Gly Ala Leu Ser Val Ile  
 65 70 75 80  
 Asp Met Gly Ile Ser Thr Ile Ile Val Pro Arg Leu Met Met Asn Phe  
 85 90 95  
 Thr Pro Gly Ile Lys Pro Ile Pro Phe Gly Gly Cys Val Ala Gln Leu  
 100 105 110  
 Tyr Phe Tyr His Phe Leu Gly Ser Ser Gln Cys Phe Leu Tyr Thr Thr  
 115 120 125  
 Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Gln Pro Leu Arg Tyr Pro  
 130 135 140  
 Val Leu Met Ser Ala Lys Leu Ser Ile Leu Leu Val Ala Gly Ala Trp  
 145 150 155 160  
 Val Ala Gly Ser Ile His Gly Ala Ile Gln Ala Ile Leu Thr Phe Arg  
 165 170 175  
 Leu Pro Tyr Cys Gly Pro Asn Gln Val Asp Tyr Phe Phe Cys Asp Ile  
 180 185 190  
 Pro Ala Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Val Asn Glu Leu  
 195 200 205  
 Val Thr Phe Val Asp Ile Gly Val Val Val Ala Ser Cys Phe Ser Leu  
 210 215 220  
 Ile Leu Leu Ser Tyr Ile Tyr Ile Ile Arg Ala Ile Leu Arg Ile Arg  
 225 230 235 240  
 Thr Ala Asp Gly Arg Arg Arg Ala Phe Ser Thr Cys Gly Ala His Val  
 245 250 255  
 Thr Ile Val Thr Val Tyr Tyr Val Pro Cys Ala Phe Ile Tyr Leu Arg  
 260 265 270  
 Pro Asp Ser His Ser Ile Leu Asp Gly Ala Ala Ala Leu Phe Pro Thr  
 275 280 285  
 Ala Ile Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Gln  
 290 295 300  
 Glu Val Lys Leu Ala Leu Arg Arg Met Val Gly Ser Gln Ser Thr Lys  
 305 310 315 320  
 Ser Glu Val Xaa Ala Pro Leu Leu Phe Xaa Gly  
 325 330

<210> 2390

<211> 324

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M160 8575572-1-54180-57203 1450-479)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(324)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2390

```

Ile Leu Thr Asp Xaa Asp Met Arg Arg Thr Arg Asn Thr Ser Leu Asp
 1          5          10          15
Ala Val Val Thr Asp Phe Leu Leu Leu Gly Leu Ala His Pro Pro Asn
 20          25          30
Leu Arg Ala Phe Leu Phe Leu Val Phe Phe Leu Ile Tyr Ile Leu Thr
 35          40          45
Gln Leu Gly Asn Leu Leu Ile Leu Leu Thr Val Trp Ala Asp Pro Lys
 50          55          60
Leu His Ala Arg Pro Met Tyr Ile Leu Leu Gly Val Leu Ser Phe Leu
 65          70          75          80
Asp Met Trp Leu Ser Ser Val Ile Val Pro Arg Leu Ile Leu Asn Phe
 85          90          95
Thr Pro Ala Ser Lys Ala Ile Pro Phe Gly Gly Cys Val Ala Gln Leu
100          105          110
Tyr Phe Phe His Phe Leu Gly Ser Thr Gln Cys Phe Leu Tyr Thr Leu
115          120          125
Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Gln Pro Leu Arg Tyr Pro
130          135          140
Val Leu Met Asn Gly Lys Leu Cys Thr Ile Leu Val Ser Gly Ala Trp
145          150          155          160
Val Ala Gly Ser Ile His Gly Ser Ile Gln Thr Thr Leu Thr Phe Arg
165          170          175
Leu Pro Tyr Cys Gly Pro Asn Gln Ile Asp Tyr Phe Ile Cys Asp Ile
180          185          190
Pro Ala Val Leu Arg Leu Ala Cys Ala Asp Thr Thr Val Asn Glu Leu
195          200          205
Val Thr Phe Val Asp Ile Gly Val Val Ala Ala Ser Cys Phe Met Leu
210          215          220
Ile Leu Leu Ser Tyr Ala Asn Ile Val His Ala Ile Leu Lys Ile Arg
225          230          235          240
Thr Ala Asp Gly Arg Lys Arg Ala Phe Ser Thr Cys Gly Ser His Leu
245          250          255
Thr Val Val Thr Val Tyr Tyr Val Pro Cys Ile Phe Ile Tyr Leu Arg
260          265          270
Ala Gly Ser Lys Ser Pro Phe Asp Gly Ala Val Ala Val Phe Tyr Thr
275          280          285
Val Val Thr Pro Leu Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Gln
290          295          300
Glu Val Lys Ser Ala Leu Lys Arg Leu Thr Ala Gly Arg Arg Asp Val
305          310          315          320
Gly Gly Glu Lys

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&lt;210&gt; 2391

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M162 8576192-11-46369-50310 3151-2165)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(329)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2391

```

Phe Ser Xaa Ser His Tyr Arg Gln Asn Met Thr Gly Asn Asn Gln Thr
1      5      10      15
Leu Ile Ser Lys Phe Leu Leu Leu Gly Leu Pro Ile Leu Ser Glu Tyr
20      25      30
His Phe Leu Phe Tyr Ala Leu Phe Leu Ala Met Tyr Leu Thr Thr Ile
35      40      45
Leu Gly Asn Leu Leu Ile Ile Ala Leu Val Arg Leu Asp Ser His Leu
50      55      60
His Thr Pro Met Tyr Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu
65      70      75      80
Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln Asn Met Gln Ser
85      90      95
Gln Val Pro Ser Ile Ser Tyr Val Gly Cys Leu Thr Gln Leu Tyr Phe
100      105      110
Phe Met Val Phe Gly Asp Met Glu Ser Phe Leu Leu Val Val Met Ala
115      120      125
Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His Tyr Thr Ser Ile
130      135      140
Met Ser Thr Lys Phe Cys Thr Ser Leu Val Leu Leu Leu Trp Met Leu
145      150      155      160
Thr Thr Ser Asn Ala Leu Met His Thr Leu Leu Met Ala Arg Leu Ser
165      170      175
Phe Cys Glu Lys Asn Val Ile Leu Arg Phe Phe Cys Asp Ile Ser Ala
180      185      190
Leu Leu Lys Leu Ser Cys Ser Asp Thr Phe Val Asn Glu Leu Met Ile
195      200      205
Phe Ile Met Gly Gly Ile Ile Ile Ile Ile Pro Phe Leu Leu Ile Val
210      215      220
Met Ser Tyr Val Arg Ile Phe Phe Ser Ile Leu Lys Val Pro Ser Thr
225      230      235      240
Gln Gly Ile His Lys Val Phe Ser Thr Cys Gly Ser His Leu Ser Val
245      250      255
Val Ser Leu Phe Tyr Gly Thr Ile Ile Gly Leu Tyr Leu Cys Pro Ser
260      265      270
Ser Asn Asn Ser Thr Val Lys Glu Ser Ala Met Ala Met Met Tyr Thr
275      280      285
Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg
290      295      300
Asp Met Lys Arg Ala Leu Ile Arg Val Ile Cys Ser Lys Lys Ile Ser
305      310      315      320
Leu Xaa Trp Lys Tyr Phe Arg Met Ile
325

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&lt;210&gt; 2392

&lt;211&gt; 275

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M163 8576192-5-7971-9031 1060-236)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(275)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2392

```

Ile Ile Ile Leu Ile Ile Leu Asp Phe His Leu His Thr Pro Ile Tyr
1      5      10      15
Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val
20      25      30
Thr Met Pro Lys Leu Leu Gln Asn Met Gln Ser Gln Asp Thr Thr Ile

```

```

      35      40      45
Ser Tyr Val Gly Cys Leu Thr Gln Met Tyr Phe Pro Asn Val Phe Ala
  50      55      60
Asn Leu Glu Asn Phe Leu Leu Met Phe Met Ala Tyr Asp Arg Tyr Val
  65      70      75      80
Ala Ile Cys Tyr Pro Leu Arg Tyr Thr Ser Ile Met Ser Pro Ile Leu
      85      90      95
Cys Val Cys Met Val Phe Met Ser Trp Leu Leu Thr Met Leu Asn Ser
      100      105      110
Thr Leu His Thr Val Leu Ile Val Lys Leu Ser Phe Cys Glu Asp Asn
      115      120      125
Val Ile Pro His Phe Phe Cys Asp Ile Ser Ala Val Leu Lys Leu Ala
      130      135      140
Cys Ser Asp Ile Tyr Ile Asn Glu Leu Thr Ile Phe Ile Thr Gly Ala
  145      150      155      160
Phe Ile Ile Val Ile Pro Phe Leu Leu Ile Val Val Ser Tyr Val Gln
      165      170      175
Ile Val Cys Ser Ile Leu Lys Phe Ser Ser Thr Arg Gly Ile Ala Lys
      180      185      190
Ile Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr
      195      200      205
Gly Thr Ile Ile Gly Leu Tyr Leu Cys Pro Ser Thr Asn Asn Ser Thr
      210      215      220
Val Lys Asp Thr Ala Met Ala Met Met Tyr Thr Val Val Thr Pro Met
  225      230      235      240
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala
      245      250      255
Leu Ile Arg Val Leu Cys Lys Lys Glu Ile Ser Leu Xaa Trp Gln Tyr
      260      265      270
Leu His Leu
      275

```

&lt;210&gt; 2393

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M165 8576192-7-12279-14147 678-1658)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(327)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2393

```

Trp Arg Ile Arg Met Ile Ile Asn Asn Gln Thr Ala Ile Pro Gln Phe
  1      5      10      15
Ile Leu Leu Gly Leu Pro Ile Leu Pro Glu Gln Gln Gln Met Phe Tyr
      20      25      30
Ala Leu Phe Leu Ala Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile
      35      40      45
Ile Ile Ile Leu Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr
      50      55      60
Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val
  65      70      75      80
Thr Met Pro Lys Leu Leu Gln Asn Ile Gln Ser Gln Asp Pro Ser Ile
      85      90      95
Ser Tyr Ala Gly Cys Leu Thr Gln Met Tyr Phe Phe Met Val Phe Ala
      100      105      110
Asn Thr Glu Asn Val Leu Leu Val Met Ala Tyr Asp Arg Tyr Val
      115      120      125
Ala Ile Cys Phe Pro Leu His Tyr Thr Ser Ile Met Ser Pro Lys Leu
      130      135      140

```

Cys Val Ser Leu Val Val Leu Thr Trp Val Phe Thr Val Leu Tyr Ser  
 145 150 155 160  
 Met Leu His Thr Leu Leu Leu Ala Arg Leu Ser Phe Cys Glu Asp Asn  
 165 170 175  
 Val Ile Thr His Phe Phe Cys Asp Ile Ser Ala Leu Leu Lys Leu Ala  
 180 185 190  
 Cys Ser Asp Thr Tyr Ile Asn Glu Leu Met Ile Phe Ile Leu Gly Thr  
 195 200 205  
 Leu Asp Thr Val Val Pro Phe Leu Leu Ile Val Val Ser Tyr Val Gln  
 210 215 220  
 Ile Val Cys Ser Ile Leu Lys Phe Ser Thr Lys Gln Gly Ile Ala Lys  
 225 230 235 240  
 Val Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr  
 245 250 255  
 Gly Thr Ile Ile Gly Val Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr  
 260 265 270  
 Val Lys Glu Ile Val Met Ala Leu Met Tyr Thr Val Val Thr Pro Met  
 275 280 285  
 Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Glu Ala  
 290 295 300  
 Leu Ile Arg Val Leu Cys Lys Lys Gln Ile Pro Leu Xaa Cys Leu Tyr  
 305 310 315 320  
 Trp Asn Phe Xaa Ile Xaa Ile  
 325

&lt;210&gt; 2394

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M166 8576192-8-1-1469 247-1198)

&lt;400&gt;2394

Arg Gly Arg Met Val Met Asn Asn Gln Thr Val Ile Ser Gln Leu Leu  
 1 5 10 15  
 Leu Val Gly Leu His Ile Pro Pro Asp His Gln Gln Gly Phe Tyr Thr  
 20 25 30  
 Leu Phe Leu Ala Met Tyr Leu Thr Thr Ile Leu Gly Asn Leu Ile Ile  
 35 40 45  
 Ile Pro Leu Ile Ile Met Asp Ser Pro Phe Pro Thr His Pro Met Tyr  
 50 55 60  
 Leu Phe Leu Ile Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val  
 65 70 75 80  
 Thr Val Pro Lys Leu Leu Gln Asn Met Gln Ser Gln Asp Thr Ser Ile  
 85 90 95  
 Ser Tyr Ala Gly Cys Leu Thr Gln Met Tyr Phe Leu Met Val Phe Gly  
 100 105 110  
 Asp Met Glu Ser Phe Leu Leu Val Met Ala Tyr Asp Arg Tyr Val  
 115 120 125  
 Ala Ile Cys Phe Pro Leu His Tyr Thr Ser Thr Met Ser Pro Lys Phe  
 130 135 140  
 Cys Val Cys Val Gly Ala Leu Ser Trp Val Phe Thr Ile Met Tyr Ser  
 145 150 155 160  
 Met Val His Thr Leu Leu Leu Ser Arg Leu Ser Phe Cys Glu Asp Asn  
 165 170 175  
 Val Ile Pro His Phe Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ala  
 180 185 190  
 Cys Ser Asp Ile Phe Ile Asn Glu Leu Met Ile Phe Ile Leu Gly Gly  
 195 200 205  
 Pro Val Val Ala Ile Pro Phe Leu Leu Ile Val Val Ser Tyr Val Arg  
 210 215 220  
 Ile Val Ser Ser Ile Leu Lys Val Ser Ser Ser Gln Gly Ile His Lys  
 225 230 235 240

Ile Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr  
                             245                            250                            255  
 Gly Thr Ile Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr  
                             260                            265                            270  
 Val Lys Lys Ile Ala Met Ala Met Met Tyr Thr Val Val Thr Pro Met  
                             275                            280                            285  
 Leu Asn Pro Phe Ile Tyr Ser Leu Arg Ser Arg Asp Met Lys Glu Ala  
                             290                            295                            300  
 Leu Ile Arg Val Leu Cys Lys Lys Lys Ile Ser Leu  
 305                            310                            315

&lt;210&gt; 2395

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M167 8576192-8-6530-9303 730-2)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(244)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2395

Tyr Leu Ser Arg Gly Leu Pro Ser Phe Glu Gly Leu Thr Gln Ala Xaa  
   1                            5                            10                            15  
 Leu Asn Thr Xaa Ser Asn His His Ile Pro Thr Ile Val His Arg Thr  
                             20                            25                            30  
 Ile Asp Asp Ile Cys Asn Ser Phe Xaa Cys Leu Phe Phe Ala Leu Gly  
                             35                            40                            45  
 Ser Asn Pro Leu Phe Gln Met Ser Gln Lys Tyr Cys Ile Xaa Xaa Tyr  
                             50                            55                            60  
 Ile Gly Asn Leu His Ser Lys Gly Ile Tyr Ile Phe Asn Gly Leu Thr  
 65                            70                            75                            80  
 Ser Ile Arg Leu Leu Gln Ile Ile Leu Thr Phe Leu Ser Met Lys Ala  
                             85                            90                            95  
 Leu Cys Ser Ser Pro Lys Phe Ser Asn Ile Leu Ser Cys Ser Ser Ala  
                             100                            105                            110  
 Leu Leu Leu Ile Lys Ser Lys Ser Phe Val Ser Asn Xaa Tyr His Leu  
                             115                            120                            125  
 Thr His Ile Glu Cys Xaa Leu Tyr Ser Leu Asn Ser Ile Leu His Arg  
                             130                            135                            140  
 Tyr Tyr Ala Leu Val Met Lys Cys Ser Gln Asn Ser Tyr Ile Glu Ser  
 145                            150                            155                            160  
 Leu Val Leu Asp Ala Met Phe Arg Gly Gly Ser Gly Arg His Gly Gly  
                             165                            170                            175  
 Val Phe Lys Thr Leu Thr His Gln Leu Ser Pro Leu Ile Pro Lys Val  
                             180                            185                            190  
 Xaa Ser Ser Met Gly Ile His Lys Ala Phe Ser Thr Ser Gly Ser Asp  
                             195                            200                            205  
 Arg Asp Leu Ser Met Val Ser Val Tyr Tyr Gly Lys Val Ile Asp Leu  
                             210                            215                            220  
 Phe Leu Ser Pro Ser Ser Asn Met Asn Thr Met Lys Glu Thr Ile Ile  
 225                            230                            235                            240  
 Ser Val Met Tyr

&lt;210&gt; 2396

&lt;211&gt; 338

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M168 8576195-11-1440-4165 2456-1443)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(338)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2396

Cys Xaa Xaa His Phe Ile Leu Ser Leu Leu Gln Met Lys Val Met Lys  
 1 5 10 15  
 Gln Met Val Thr Glu Ser Asn Ser Ser Val Thr Glu Phe Ile Leu Met  
 20 25 30  
 Gly Leu Thr Val Gln Lys Glu Leu Gln Leu Pro Leu Phe Ile Leu Phe  
 35 40 45  
 Leu Leu Asn Tyr Thr Ala Thr Val Val Gly Asn Leu Ser Leu Met Asn  
 50 55 60  
 Leu Ile Cys Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Ile  
 65 70 75 80  
 Phe Asn Leu Ser Cys Ile Asp Phe Cys Tyr Ser Phe Val Ser Asn Pro  
 85 90 95  
 Thr Met Leu Arg Ser Phe Val Thr Glu Gln Asn Thr Ile Ser Tyr Glu  
 100 105 110  
 Gly Cys Met Ser Gln Leu Phe Phe Phe Cys Phe Phe Val Asn Ser Glu  
 115 120 125  
 Cys Tyr Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 130 135 140  
 His Pro Leu Lys Tyr Thr Thr Val Met Ser Pro Lys Ile Cys Cys Leu  
 145 150 155 160  
 Leu Val Phe Gly Ser Tyr Leu Met Gly Phe Ala Gly Ala Leu Thr His  
 165 170 175  
 Thr Gly Phe Met Ile Arg Leu Ser Phe Cys Asn Ser Asn Ile Ile Asn  
 180 185 190  
 His Tyr Met Cys Asp Ile Phe Pro Leu Leu Gln Leu Ser Cys Thr Ser  
 195 200 205  
 Thr Tyr Val Asn Glu Leu Val Ser Ser Ala Val Val Gly Thr Ile Ile  
 210 215 220  
 Ile Leu Ser Ser Ile Ile Ile Leu Val Ser Tyr Ala Met Ile Leu Ser  
 225 230 235 240  
 Asn Ile Leu His Met Ser Ser Ser Lys Gly Trp Ser Lys Ala Leu Gly  
 245 250 255  
 Thr Cys Gly Ser His Ile Ile Thr Val Ser Leu Phe Tyr Gly Ser Gly  
 260 265 270  
 Leu Leu Ala Tyr Ile Lys Pro Thr Ser Ala Glu Thr Val Asp Gln Gly  
 275 280 285  
 Lys Phe Leu Ser Ile Phe Tyr Thr Leu Val Val Pro Met Leu Asn Pro  
 290 295 300  
 Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Leu Ala Leu Lys Arg  
 305 310 315 320  
 Thr Met Lys Arg Val Thr Thr Xaa Met Asn Ser Cys Ala Phe Ile Val  
 325 330 335  
 Leu Pro

&lt;210&gt; 2397

&lt;211&gt; 340

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M169 8576195-13-2329-4897 1250-2268)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(340)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2397



```

Ile Ser Cys Leu Val Val Ser Pro Ser Ile Leu Gln Thr Ser His Thr
1      5      10      15
Lys Gln Ile Thr Met Glu Asn Asp Ser Phe Val Ser Glu Phe Ile Leu
20      25      30
Met Gly Leu Thr Asp His Pro Glu Leu Gln Leu Ser Leu Phe Val Leu
35      40      45
Phe Leu Met Asn Tyr Thr Ala Ile Val Met Gly Asn Leu Ser Leu Met
50      55      60
Ile Leu Ile Phe Leu Asn Ser Asn Leu His Thr Pro Met Tyr Phe Phe
65      70      75      80
Ile Phe Asn Leu Ser Phe Ile Asp Phe Cys Tyr Ser Phe Val Phe Thr
85      90      95
Pro Lys Met Leu Met Ser Phe Phe Leu Glu Lys Asn Thr Ile Ser Phe
100     105     110
Arg Gly Cys Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Asn Ser
115     120     125
Glu Ser Tyr Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile
130     135     140
Cys Lys Pro Leu Leu Tyr Lys Thr Ile Met Val Pro Arg Ile Cys Cys
145     150     155     160
Leu Leu Met Phe Val Ser Tyr Leu Ile Gly Phe Thr Ser Ala Met Ile
165     170     175
Leu Thr Gly Leu Met Phe Arg Leu Asn Phe Cys Asn Asn His Ile Ile
180     185     190
Asn His Tyr Met Cys Asp Ile Phe Pro Val Ile Gln Ile Ser Cys Ser
195     200     205
Asp Thr Tyr Leu Asn Glu Leu Val Ser Thr Ala Val Val Gly Thr Gly
210     215     220
Ile Ile Leu Cys Ser Leu Leu Ile Leu Met Ser Tyr Ala Leu Ile Leu
225     230     235     240
Phe Asn Ile Leu Asn Met Ser Ser Gly Lys Gly Trp Ser Lys Ala Met
245     250     255
Gly Thr Cys Gly Ser His Ile Ile Thr Val Ser Leu Phe Tyr Gly Ser
260     265     270
Gly Leu Leu Ala Tyr Val Lys Pro Ser Ser Ala Glu Thr Val Gly Gln
275     280     285
Gly Lys Phe Phe Ser Leu Phe Tyr Thr Phe Leu Val Pro Met Leu Asn
290     295     300
Pro Leu Ile Tyr Ser Leu Gln Asn Lys Asp Val Lys Val Ala Val Lys
305     310     315     320
Lys Thr Leu Lys Arg Ile Ser Asn Xaa Leu Glu Pro Leu Ala Leu His
325     330     335
Arg Thr Leu Ser
340

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&lt;210&gt; 2398

&lt;211&gt; 336

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M171 8576195-15-1361-3546 1172-2177)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(336)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2398

```

Phe Xaa Leu Met Leu Leu Gln Met Gln His Met Lys Gln Met Ile Met
1      5      10      15
Glu Asn Asp Ser Val Ser Glu Phe Ile Leu Met Gly Leu Thr Tyr
20      25      30
Gln Pro Glu Leu Trp Trp Pro Leu Phe Val Leu Phe Leu Val Asn Tyr

```

```

      35      40      45
Thr Ala Thr Val Met Gly Asn Leu Ser Leu Met Thr Leu Ile Cys Leu
  50      55      60
Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Ile Leu Asn Leu Ser
  65      70      75      80
Phe Ile Asp Phe Cys Tyr Ser Phe Val Phe Thr Pro Lys Met Leu Met
      85      90      95
Gly Phe Val Ser Glu His Asn Thr Ile Ser Phe Thr Gly Cys Met Thr
      100      105      110
Gln Leu Phe Phe Cys Leu Phe Val Asn Ser Glu Cys Tyr Val Leu
      115      120      125
Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu Leu
      130      135      140
Tyr Thr Val Val Met Ser Pro Arg Ala Cys Ser Leu Leu Met Leu Ala
      145      150      155      160
Ala His Leu Met Gly Val Ser Ser Ala Val Val His Thr Gly Cys Ile
      165      170      175
Ile Gln Leu Arg Phe Cys Gly Ser Lys Val Ile Asn His Tyr Met Cys
      180      185      190
Asp Thr Phe Pro Leu Leu Glu Leu Ser Cys Gly Ser Ser His Val Asn
      195      200      205
Glu Leu Val Ser Ser Val Ser Val Ala Val Val Val Val Ile Ser Ser
      210      215      220
Leu Ile Ile Val Ser Ser Tyr Ala Leu Ile Leu Val Asn Val Ile His
      225      230      235      240
Leu Ser Ser Ser Lys Gly Trp Ser Lys Ala Val Ser Thr Cys Ser Ser
      245      250      255
His Ile Ile Thr Val Ala Leu Phe Tyr Gly Phe Gly Leu Leu Ala His
      260      265      270
Ile Lys Pro Ser Ser Ala Glu Ser Val Val Gln Arg Lys Phe Phe Ser
      275      280      285
Val Val Tyr Thr Phe Val Leu Leu Pro Leu Leu Asn Pro Leu Ile Tyr Ser
      290      295      300
Ser Gly Asn Lys Asp Phe Lys Leu Leu Gly Thr Ile Asp Arg Leu Ala
      305      310      315      320
Gly Ser Asn Leu Ala Ser Phe Phe Phe Leu Ser Pro Leu Leu Ser Lys
      325      330      335

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&lt;210&gt; 2399

&lt;211&gt; 326

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M172 8576195-20-3387-5132 199-1176)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(326)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2399

```

Ile Leu Thr Asp Met Thr Xaa Glu Gly Met Ala Ser Gly Asn Asp Ser
  1      5      10      15
Thr Thr Val Lys Glu Phe Ile Leu Leu Gly Leu Thr Gln Gln Pro Glu
      20      25      30
Leu Gln Leu Pro Phe Phe Phe Leu Phe Leu Gly Ile Tyr Val Val Ser
      35      40      45
Ile Val Gly Asn Leu Gly Leu Ile Val Leu Ile Val Leu Asn Pro His
      50      55      60
Leu His Thr Pro Met Tyr Tyr Phe Leu Phe Asn Leu Ser Phe Ile Asp
      65      70      75      80
Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys Met Leu Val Gly Phe Val
      85      90      95

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Lys Gln Asn Ile Ile Ser His Ala Glu Cys Met Thr Gln Leu Phe Phe  
                   100                  105                  110  
 Phe Ala Phe Phe Val Ile Asp Glu Cys Cys Ile Leu Thr Ala Met Ser  
                   115                  120                  125  
 Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Lys Val Thr  
                   130                  135                  140  
 Met Ser Tyr Gln Val Cys Phe Met Met Thr Val Ser Val Tyr Met Met  
                   145                  150                  155                  160  
 Gly Phe Val Gly Ala Ile Ala His Thr Ile Cys Met Leu Arg Leu Thr  
                   165                  170                  175  
 Phe Cys Asp Gly Asn Ile Ile Asn His Tyr Met Cys Asp Ile Pro Pro  
                   180                  185                  190  
 Leu Leu Lys Leu Ser Cys Thr Asn Thr Ser Val Asn Glu Leu Val Val  
                   195                  200                  205  
 Phe Ile Val Val Gly Val Asn Val Ile Gly Pro Thr Leu Ile Ile Phe  
                   210                  215                  220  
 Thr Ser Tyr Thr Leu Ile Phe Asn Ile Ser His Ile Arg Ser Thr  
                   225                  230                  235                  240  
 Glu Gly Arg Ser Lys Ala Ile Ser Thr Cys Ser Ser His Ile Ile Ala  
                   245                  250                  255  
 Val Ser Ile Phe Phe Gly Ala Ser Ala Phe Met Tyr Leu Lys Pro Ser  
                   260                  265                  270  
 Pro Val Gly Ser Val Gly Glu Asp Lys Val Ser Thr Val Phe Tyr Thr  
                   275                  280                  285  
 Ile Val Gly Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys  
                   290                  295                  300  
 Asp Val His Ile Ala Leu His Lys Thr Leu Lys Lys Ser Met Leu Ile  
                   305                  310                  315                  320  
 Xaa Ile Glu Thr Phe Phe  
                                   325

&lt;210&gt; 2400

&lt;211&gt; 337

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M174 8576195-24-446-3721 1969-959)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(337)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2400

Leu Leu Phe Leu Gln Arg Pro Ser Met Lys Gln Met Ala Thr Lys Asn  
   1                  5                  10                  15  
 Asp Ser Ser Val Ser Glu Phe Ile Leu Met Gly Leu Thr Asp Gln Pro  
                   20                  25                  30  
 Glu Leu Gln Leu Pro Leu Phe Phe Leu Phe Leu Leu Asn His Thr Val  
                   35                  40                  45  
 Ile Val Val Gly Asn Leu Ser Leu Met Ser Leu Ile Ile Leu Asn Ser  
                   50                  55                  60  
 Asn Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn Leu Ser Phe Ile  
                   65                  70                  75                  80  
 Asp Phe Cys Tyr Ser Phe Val Phe Thr Pro Lys Met Leu Met Ser Phe  
                   85                  90                  95  
 Val Ser Glu Lys Asn Ile Ile Pro Phe Thr Gly Cys Met Thr Gln Leu  
                   100                  105                  110  
 Phe Phe Phe Cys Phe Phe Ala His Ser Glu Ser Trp Val Leu Thr Val  
                   115                  120                  125  
 Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Lys  
                   130                  135                  140  
 Ala Ile Met Leu Pro Arg Ile Cys Cys Leu Leu Met Phe Val Ser Tyr

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145          150          155          160
Leu Ile Gly Phe Ala Ser Ala Met Val Leu Ala Gly Leu Met Ile Arg
          165          170          175
Leu Asn Phe Cys Asn Asn Asn Ile Ile Asn His Tyr Met Cys Asp Ile
          180          185          190
Phe Pro Val Leu Arg Ile Ser Cys Ser Asn Thr Tyr Leu Asn Glu Leu
          195          200          205
Val Ser Thr Ala Val Val Gly Thr Ala Ile Ile Leu Cys Ser Leu Ile
          210          215          220
Ile Phe Ile Ser Tyr Ala Met Ile Leu Phe Asn Ile Val His Met Ser
225          230          235          240
Ser Gly Lys Gly Trp Ser Lys Ala Leu Gly Thr Cys Gly Ser His Ile
          245          250          255
Ile Thr Val Ser Phe Phe Tyr Gly Ser Gly Leu Leu Ala Tyr Val Lys
          260          265          270
Pro Ser Ser Ala Glu Thr Val Gly Gln Gly Lys Phe Phe Ser Val Phe
          275          280          285
Tyr Thr Phe Leu Val Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg
          290          295          300
Asn Lys Asp Val Lys Val Ala Val Lys Lys Thr Ile Lys Arg Ile Thr
305          310          315          320
Ser Xaa Leu Lys Gln Phe Glu Leu Val Cys Phe His Phe Leu Ser Ile
          325          330          335
Ile

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&lt;210&gt; 2401

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Mus musculus (M175 8576195-26-1-5230 3083-4056)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(325)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2401

```

Leu Phe Ser Ser Arg Phe Ser Met Ile Ser Met Leu Ala Gly Asn Gly
1          5          10          15
Ser Ser Val Thr Glu Phe Val Leu Ala Gly Leu Thr Asp Arg Pro Glu
          20          25          30
Leu Gln Leu Pro Leu Phe Tyr Leu Phe Leu Ile Ile Tyr Ile Ile Thr
          35          40          45
Val Val Gly Asn Leu Gly Leu Ile Ile Leu Ile Gly Leu Asn Pro His
          50          55          60
Leu His Thr Pro Met Tyr Tyr Phe Leu Phe Asn Leu Ser Phe Ile Asp
65          70          75          80
Leu Cys Tyr Ser Ser Val Phe Ser Pro Lys Met Leu Ile Asn Phe Val
          85          90          95
Ser Glu Lys Asn Ser Ile Ser Tyr Ala Gly Cys Met Thr Gln Leu Phe
          100          105          110
Leu Phe Leu Phe Phe Val Ile Ser Glu Cys Tyr Met Leu Thr Ser Met
          115          120          125
Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Leu Tyr Lys Val
          130          135          140
Thr Met Ser Pro Gln Ile Cys Ser Val Ile Ser Phe Ala Ala Tyr Gly
145          150          155          160
Met Gly Phe Ala Gly Ser Ser Ala His Thr Gly Cys Met Leu Arg Leu
          165          170          175
Thr Phe Cys Asn Val Asn Val Ile Asn His Tyr Leu Cys Asp Ile Leu
          180          185          190

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Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr Tyr Val Asn Glu Val Val  
 195 200 205  
 Val Leu Ile Val Val Gly Ile Asn Ile Thr Val Pro Ser Phe Thr Ile  
 210 215 220  
 Leu Ile Ser Tyr Val Phe Ile Leu Ala Asn Ile Leu Asn Ile Lys Ser  
 225 230 235 240  
 Thr Gln Gly Arg Ala Lys Ala Phe Ser Thr Cys Ser Ser His Ile Met  
 245 250 255  
 Ala Ile Ser Leu Phe Phe Gly Ser Ala Ala Phe Met Tyr Leu Lys Tyr  
 260 265 270  
 Ser Ser Gly Ser Met Glu Gln Gly Lys Ile Ser Ser Val Phe Tyr Thr  
 275 280 285  
 Asn Val Gly Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys  
 290 295 300  
 Asp Val Lys Val Ala Leu Arg Lys Ser Leu Ile Lys Ile Gln Arg Lys  
 305 310 315 320  
 Asp Arg Phe Xaa Leu  
 325

&lt;210&gt; 2402

&lt;211&gt; 204

&lt;212&gt; PRT

&lt;213&gt; Unknown (p124-dir-0-7 conceptual translation of range 2-613)

&lt;400&gt;2402

Phe Leu Glu Phe Ala Phe Thr Pro Ala Cys Ile Leu Arg Phe Pro Val  
 1 5 10 15  
 Thr Ile Val Thr Gly Asp Arg Thr Ile Ser Phe Ser Asn Cys Phe Phe  
 20 25 30  
 Phe Gln Leu Phe Phe Ile Phe Leu Gly Val Met Glu Phe Phe Leu Leu  
 35 40 45  
 Ala Pro Thr Ser Tyr Asp Cys Tyr Val Ala Ile Cys Arg Pro Leu His  
 50 55 60  
 His Ser Thr Val Met Thr Arg Gly Val Cys Thr Leu Leu Val Leu Ser  
 65 70 75 80  
 Ser Phe Leu Ser Thr Tyr Leu Asn Leu Phe Pro Pro Val Val Met Asp  
 85 90 95  
 Phe Trp Leu Asp Cys Cys Asp Pro Asn Ile Leu Lys His Phe Ile Cys  
 100 105 110  
 Asp Ser Ser Ser Val Met Glu Leu Leu Cys Thr Asp Thr Arg Phe Leu  
 115 120 125  
 Glu Leu Met Thr Phe Pro Leu Ser Leu Val Leu Met Thr Ala Ser Tyr  
 130 135 140  
 Thr Ala Ile Ile Cys Ala Ile Leu Arg Leu Pro Tyr Ala Gln Gln Arg  
 145 150 155 160  
 Arg Lys Val Phe Ser Ile Cys Ser Ser His Arg Val Gly Phe Ser Ile  
 165 170 175  
 Thr Tyr Gly Ser Cys Ile Phe Met Tyr Ile Asn Thr Val Ala Asp Lys  
 180 185 190  
 Asp Arg Val Gly Val Arg Gln Gly Leu Gly Gly Pro  
 195 200

&lt;210&gt; 2403

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (OR2B8)

&lt;400&gt;2403

Met Asp Gln Lys Asn Gly Ser Ser Phe Thr Gly Phe Ile Leu Leu Gly  
 1 5 10 15  
 Phe Ser Asp Arg Pro Gln Leu Glu Leu Val Leu Phe Val Val Phe Leu

			20					25					30				
Ile	Phe	Tyr	Ile	Phe	Thr	Leu	Leu	Gly	Asn	Lys	Thr	Ile	Ile	Val	Leu		
		35					40					45					
Ser	His	Leu	Asp	Pro	His	Leu	His	Asn	Pro	Met	Tyr	Phe	Phe	Phe	Ser		
		50				55					60						
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Gly	Ile	Val	Pro	Gln		
65					70					75					80		
Leu	Leu	Val	Asn	Leu	Arg	Gly	Ala	Asp	Lys	Ser	Ile	Ser	Tyr	Gly	Gly		
			85						90					95			
Cys	Val	Val	Gln	Leu	Tyr	Ile	Ser	Leu	Gly	Leu	Gly	Ser	Thr	Glu	Cys		
			100					105					110				
Val	Leu	Leu	Gly	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg		
			115				120					125					
Pro	Leu	His	Tyr	Thr	Val	Val	Met	His	Pro	Cys	Leu	Tyr	Val	Leu	Met		
		130				135					140						
Ala	Ser	Thr	Ser	Trp	Val	Ile	Gly	Phe	Ala	Asn	Ser	Leu	Leu	Gln	Thr		
145					150					155					160		
Val	Leu	Ile	Leu	Leu	Leu	Thr	Leu	Cys	Gly	Arg	Asn	Lys	Leu	Glu	His		
			165					170						175			
Phe	Leu	Cys	Glu	Val	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Val	Asp	Thr		
			180					185					190				
Thr	Met	Asn	Glu	Ser	Glu	Leu	Phe	Phe	Val	Ser	Val	Ile	Ile	Leu	Leu		
		195					200					205					
Val	Pro	Val	Ala	Leu	Ile	Ile	Phe	Ser	Tyr	Ser	Gln	Ile	Val	Arg	Ala		
		210				215					220						
Val	Val	Arg	Ile	Lys	Ser	Ala	Thr	Gly	Gln	Arg	Lys	Val	Phe	Gly	Thr		
225					230					235					240		
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ala	Ile		
			245					250						255			
Tyr	Ala	Tyr	Leu	Gln	Pro	Gly	Asn	Asn	Tyr	Ser	Gln	Asp	Gln	Gly	Lys		
			260				265						270				
Phe	Ile	Ser	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Ile	Asn	Pro	Leu		
		275					280					285					
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Lys	Lys	Val		
		290				295					300						
Leu	Trp	Lys	Asn	Tyr	Asp	Ser	Arg										
305					310												

&lt;210&gt; 2404

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (OR12D3)

&lt;400&gt;2404

Met	Glu	Asn	Val	Thr	Thr	Met	Asn	Glu	Phe	Leu	Leu	Leu	Gly	Leu	Thr		
1				5					10					15			
Gly	Val	Gln	Glu	Leu	Gln	Pro	Phe	Phe	Phe	Gly	Ile	Phe	Leu	Ile	Ile		
		20						25				30					
Tyr	Leu	Ile	Asn	Leu	Ile	Gly	Asn	Gly	Ser	Ile	Leu	Val	Met	Val	Val		
		35				40					45						
Leu	Glu	Pro	Gln	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu		
		50				55					60						
Ser	Cys	Leu	Asp	Ile	Ser	Tyr	Ser	Ser	Val	Thr	Leu	Pro	Lys	Leu	Leu		
65					70					75					80		
Val	Asn	Leu	Val	Cys	Ser	Arg	Arg	Ala	Ile	Ser	Phe	Leu	Gly	Cys	Ile		
			85					90					95				
Thr	Gln	Leu	His	Phe	Phe	His	Phe	Leu	Gly	Ser	Thr	Glu	Ala	Ile	Leu		
		100					105					110					
Leu	Ala	Ile	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Asn	Pro	Leu		
		115					120					125					
Arg	Tyr	Thr	Val	Ile	Met	Asn	Pro	Gln	Val	Cys	Ile	Leu	Leu	Ala	Ala		

130	135	140
Ala Ala Trp Leu Ile Ser Phe Phe Tyr Ala Leu Met His Ser Val Met		
145	150	155
Thr Ala His Leu Ser Phe Cys Gly Ser Gln Lys Leu Asn His Phe Phe		160
	165	170
Tyr Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Ser Asp Thr Leu Leu		175
	180	185
Asn Gln Trp Leu Leu Ser Ile Val Thr Gly Ser Ile Ser Met Gly Ala		190
	195	200
Phe Phe Leu Thr Leu Leu Ser Cys Phe Tyr Val Ile Gly Phe Leu Leu		205
	210	215
Phe Lys Asn Arg Ser Cys Arg Ile Leu His Lys Ala Leu Ser Thr Cys		220
225	230	235
Ala Ser His Phe Met Val Val Cys Leu Phe Tyr Gly Pro Val Gly Phe		240
	245	250
Thr Tyr Ile Arg Pro Ala Ser Ala Thr Ser Met Ile Gln Asp Arg Ile		255
	260	265
Met Ala Ile Met Tyr Ser Ala Val Thr Pro Val Leu Asn Pro Leu Ile		270
	275	280
Tyr Thr Leu Arg Asn Lys Glu Val Met Met Ala Leu Lys Lys Ile Phe		285
	290	295
Gly Arg Lys Leu Phe Lys Asp Trp Gln Gln His		300
305	310	315

&lt;210&gt; 2405

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Unknown (3273654-dir-0-5 conceptual translation of range 1-345)

&lt;400&gt;2405

Leu Phe Cys Asp Pro Ser Gln Leu Leu Asn Leu Ser Cys Ser Asn Thr
1 5 10 15
Phe Ser Asp Asn Ile Val Lys Tyr Phe Leu Gly Ala Leu Tyr Gly Leu
20 25 30
Phe Pro Ile Ser Gly Ile Leu Phe Ser Tyr Tyr Lys Ile Ser Ser
35 40 45
Ile Leu Arg Ile Pro Ser Leu Gly Gly Lys Tyr Lys Ala Phe Ser Thr
50 55 60
Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Leu Val Thr Ala Ser
65 70 75 80
Thr Val Tyr Leu Gly Ser Val Ala Ser His Ser Pro Arg Asn Asp Val
85 90 95
Val Ala Ser Leu Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
100 105 110
Ile Cys Ser
115

&lt;210&gt; 2406

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Unknown (3810857-dir-0-6 conceptual translation of range 1-417)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(139)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2406

Met Ala Xaa Asp Arg Phe Val Ala Ile Cys His Pro Leu Asn Tyr Thr
1 5 10 15
Val Ile Met Asn Pro Arg Ile Cys Gly Leu Leu Val Leu Leu Ser Trp

			20					25					30				
Ile	Ile	Met	Phe	Trp	Val	Ser	Leu	Ile	His	Met	Leu	Leu	Met	Lys	Gln		
		35					40					45					
Leu	Asn	Phe	Ser	Thr	Ser	Thr	Glu	Ile	Pro	His	Phe	Phe	Cys	Glu	Leu		
	50					55					60						
Thr	Glu	Leu	Leu	Arg	Val	Gly	Arg	Ser	Asp	Thr	Phe	Thr	Gln	Asn	Ile		
65					70				75					80			
Phe	Leu	Tyr	Leu	Gly	Tyr	Cys	Arg	Ala	Gly	Met	Phe	Pro	Val	Ile	Gly		
			85						90					95			
Ile	Ala	Phe	Ser	Tyr	Phe	His	Ile	Val	Ser	Ala	Leu	Met	Lys	Met	Ser		
		100					105						110				
Ser	Ile	Lys	Asn	Lys	Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu		
	115					120						125					
Cys	Val	Val	Ser	Met	Phe	Tyr	Gly	Thr	Gly	Leu							
	130					135											

&lt;210&gt; 2407

&lt;211&gt; 211

&lt;212&gt; PRT

&lt;213&gt; Unknown (p106-dir-0-8 conceptual translation of range 2-633)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(211)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2407

Leu	Val	Asp	Leu	Cys	Leu	Val	Thr	Thr	Leu	Val	Pro	Lys	Met	Leu	Val		
1			5					10					15				
Asn	Leu	Leu	Thr	His	Ser	Lys	Ala	Ile	Ser	Tyr	Ala	Gly	Cys	Leu	Thr		
		20					25					30					
Gln	Met	Phe	Phe	Phe	Met	Val	Phe	Ala	Cys	Ser	Asn	Thr	Leu	Leu	Leu		
	35					40					45						
Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Tyr	His	Pro	Leu	Ser		
50					55						60						
Tyr	Val	Thr	Ile	Met	Arg	Pro	Gln	Phe	Cys	Gly	Leu	Leu	Ala	Leu	Leu		
65				70					75					80			
Ser	Trp	Thr	Ile	Ser	Leu	Leu	Asn	Ala	Val	Leu	His	Ser	Pro	Leu	Val		
			85						90					95			
Met	Arg	Leu	Leu	Phe	Cys	Thr	Glu	Arg	Glu	Ile	Pro	Leu	Phe	Tyr	His		
		100					105						110				
Asp	Leu	Thr	Xaa	Val	Leu	Arg	Leu	Ser	Cys	Thr	Asp	Met	Leu	Ile	Asn		
	115					120						125					
Asp	Ile	Leu	Val	Tyr	Leu	Leu	Thr	Ala	Leu	Leu	Ser	Ile	Phe	Pro	Phe		
130					135						140						
Thr	Gly	Ile	Leu	Phe	Ser	Tyr	Thr	Gln	Ile	Cys	Ser	Ser	Ile	Val	Lys		
145				150					155					160			
Ile	Pro	Ser	Thr	Gly	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser		
			165				170						175				
Tyr	Leu	Cys	Val	Val	Leu	Leu	Phe	Tyr	Gly	Thr	Val	Ile	Gly	Val	Tyr		
	180					185						190					
Leu	Ser	Ser	Ser	Val	Thr	Lys	Ser	Ser	Trp	Lys	Ser	Ser	Val	Ala	Ser		
	195					200						205					
Val	Ile	Cys															
	210																

&lt;210&gt; 2408

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Unknown (4877338-dir-0-6 conceptual translation of range 2-478)



<220>  
 <221> VARIANT  
 <222> (1)...(159)  
 <223> Xaa = Any Amino Acid

<400>2408

Ile	Cys	His	Pro	Leu	Arg	Tyr	Thr	Val	Ser	Met	Asn	Pro	Arg	Leu	Cys
1				5					10					15	
Val	Gln	Leu	Ile	Leu	Leu	Ser	Leu	Phe	Ile	Ser	Ile	Ala	Asp	Ala	Leu
			20					25					30		
Leu	His	Ser	Leu	Met	Val	Leu	Gln	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu
		35					40					45			
Ile	Ser	Leu	Phe	Cys	Glu	Val	Val	Gln	Val	Ile	Lys	Arg	Ala	Cys	Ser
	50				55						60				
Asp	Thr	Leu	Ile	Asn	Asn	Ile	Leu	Val	Tyr	Phe	Ala	Ala	Gly	Ile	Phe
65					70					75				80	
Ala	Gly	Val	Pro	Leu	Ser	Gly	Ile	Ile	Phe	Ser	Tyr	Ile	Gln	Ile	Val
				85					90					95	
Ser	Ser	Ile	Leu	Xaa	Met	Pro	Ser	Ser	Gly	Arg	Lys	Xaa	Lys	Ala	Phe
			100					105					110		
Ser	Thr	Cys	Glu	Ser	His	Leu	Ser	Val	Val	Ser	Phe	Phe	Tyr	Gly	Thr
		115					120					125			
Ala	Phe	Gly	Val	Tyr	Ile	Ser	Ser	Ala	Val	Thr	Asp	Ser	Ser	Arg	Lys
	130					135					140				
Thr	Ala	Val	Ala	Ser	Leu	Met	Tyr	Thr	Val	Val	Thr	Pro	Val	Met	
145					150					155					

<210> 2409

<211> 310

<212> PRT

<213> Unknown (p22-dir-0-11 conceptual translation of range 1-930)

<400>2409

Met	Asp	Gly	Asp	Asn	Gln	Ser	Glu	Asn	Ser	Gln	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Ile	Ser	Glu	Ser	Pro	Glu	Gln	Gln	Gln	Ile	Leu	Phe	Trp	Met	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	Ser	Ser	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50				55						60				
Asn	Leu	Ser	Phe	Thr	Asp	Leu	Phe	Phe	Val	Thr	Asn	Thr	Ile	Pro	Lys
65					70					75				80	
Met	Leu	Val	Asn	Phe	Gln	Ser	Gln	Asn	Lys	Ala	Ile	Ser	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Leu	Val	Ser	Leu	Val	Thr	Leu	Asp	Asn
			100					105					110		
Leu	Ile	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Cys
		115					120					125			
Pro	Leu	His	Tyr	Val	Thr	Ala	Met	Ser	Pro	Gly	Leu	Cys	Val	Leu	Leu
	130					135					140				
Leu	Ser	Leu	Cys	Trp	Gly	Leu	Ser	Val	Leu	Tyr	Gly	Leu	Leu	Leu	Thr
145					150					155				160	
Phe	Leu	Leu	Thr	Arg	Val	Thr	Phe	Cys	Gly	Pro	Arg	Glu	Ile	His	Tyr
			165						170					175	
Leu	Phe	Cys	Asp	Met	Tyr	Ile	Leu	Leu	Trp	Leu	Ala	Cys	Ser	Asn	Thr
			180					185					190		
His	Ile	Ile	His	Thr	Ala	Leu	Ile	Ala	Thr	Gly	Cys	Phe	Ile	Phe	Leu
		195					200					205			
Thr	Leu	Leu	Gly	Phe	Met	Thr	Thr	Ser	Tyr	Val	Arg	Ile	Val	Arg	Thr
	210					215						220			

Ile Leu Gln Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala  
 245 250 255  
 Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val  
 260 265 270  
 Ala Thr Val Met Tyr Ala Val Leu Thr Pro Met Met Asn Pro Phe Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Pro Gly Arg Val Leu  
 290 295 300  
 Trp Arg Pro Phe Gln Arg  
 305 310

<210> 2410

<211> 310

<212> PRT

<213> Unknown (p23-dir-0-11 conceptual translation of range 1-930)

<400>2410

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly  
 1 5 10 15  
 Ile Ser Glu Ser Pro Glu Gln Gln Arg Ile Leu Phe Trp Met Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly  
 85 90 95  
 Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn  
 100 105 110  
 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Thr Cys Cys  
 115 120 125  
 Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu  
 130 135 140  
 Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr  
 145 150 155 160  
 Phe Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr  
 165 170 175  
 Leu Phe Cys Asp Met Tyr Ile Leu Leu Trp Leu Ala Cys Ser Asn Thr  
 180 185 190  
 His Ile Ile His Thr Ala Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu  
 195 200 205  
 Thr Pro Leu Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr  
 210 215 220  
 Ile Leu Gln Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala  
 245 250 255  
 Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val  
 260 265 270  
 Ala Thr Val Met Tyr Ala Val Leu Thr Pro Met Met Asn Pro Phe Ile  
 275 280 285  
 Tyr Arg Leu Arg Asn Lys Asp Met His Gly Ala Pro Gly Arg Val Leu  
 290 295 300  
 Trp Arg Pro Phe Gln Arg  
 305 310

<210> 2411

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (p139-dir-0-8 conceptual translation of range 2-646)

&lt;400&gt;2411

```

Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val
 1          5          10          15
Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly Cys Leu Thr
      20          25          30
Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn Leu Ile Leu
      35          40          45
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys Pro Leu His
      50          55          60
Cys Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu Leu Ser Leu
      65          70          75          80
Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr Phe Leu Leu
      85          90          95
Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr Leu Phe Cys
      100          105          110
Asp Met Tyr Ile Leu Leu Trp Leu Ala Cys Ser Asn Thr His Ile Ile
      115          120          125
His Thr Val Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu Thr Pro Leu
      130          135          140
Gly Phe Met Thr Lys Ser Tyr Val Arg Ile Val Arg Thr Ile Leu Gln
      145          150          155          160
Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr Cys Ala Ser
      165          170          175
His Leu Gly Val Val Ser Leu Phe Tyr Gly Met Leu Ala Met Val Tyr
      180          185          190
Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val
      195          200          205
Met Tyr Ala Val Val Thr Pro
      210          215

```

&lt;210&gt; 2412

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (p182-dir-0-11 conceptual translation of range 1-936)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(312)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2412

```

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly
 1          5          10          15
Ile Ser Glu Ser Pro Glu Gln Gln Arg Ile Leu Phe Trp Met Phe Leu
      20          25          30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala
      35          40          45
Ile Ser Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala
      50          55          60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
      65          70          75          80
Met Leu Val Asn Pro Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly
      85          90          95
Cys Leu Thr Gln Leu Xaa Phe Leu Val Ser Leu Val Thr Leu Asp Asn
      100          105          110
Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys
      115          120          125

```

Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu  
 130 135 140  
 Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr  
 145 150 155 160  
 Leu Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr  
 165 170 175  
 Leu Phe Cys Asp Met Tyr Ile Leu Leu Arg Leu Ala Cys Ser Asn Thr  
 180 185 190  
 His Ile Ile His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu  
 195 200 205  
 Thr Pro Leu Gly Phe Met Thr Thr Ser Tyr Val Cys Ile Val Arg Thr  
 210 215 220  
 Ile Leu Gln Ile Pro Ser Ala Ser Lys Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala  
 245 250 255  
 Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val  
 260 265 270  
 Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Val Leu  
 290 295 300  
 Arg Arg Leu Phe Gln Arg Pro Lys  
 305 310

&lt;210&gt; 2413

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (p184-dir-0-11 conceptual translation of range 1-936)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(312)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2413

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly  
 1 5 10 15  
 Ile Ser Glu Ser Pro Glu Gln Gln Arg Ile Leu Phe Trp Met Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Ser Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Pro Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly  
 85 90 95  
 Cys Leu Thr Gln Leu Xaa Phe Leu Val Ser Leu Val Thr Leu Asp Asn  
 100 105 110  
 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys  
 115 120 125  
 Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu  
 130 135 140  
 Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr  
 145 150 155 160  
 Leu Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His His  
 165 170 175  
 Leu Phe Cys Asp Met Tyr Ile Leu Leu Arg Leu Ala Cys Ser Asn Thr  
 180 185 190  
 His Ile Ile His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu

195	200	205
Thr Pro Leu Gly Phe Met	Thr Thr Ser His Val	Cys Ile Val Arg Thr
210	215	220
Ile Leu Gln Ile Pro Ser	Ala Ser Lys Lys Tyr	Lys Ala Phe Ser Thr
225	230	235
Cys Ala Ser His Leu Gly	Val Val Ser Leu Phe Tyr	Gly Thr Leu Ala
245	250	255
Met Val Tyr Leu Gln Pro	Leu His Thr Tyr Ser	Met Lys Asp Ser Val
260	265	270
Ala Thr Val Met Tyr Ala	Val Val Thr Pro Met	Met Asn Pro Phe Ile
275	280	285
Tyr Ser Leu Arg Asn Lys	Asp Met His Gly Ala	Leu Gly Arg Val Leu
290	295	300
Arg Arg Leu Phe Gln Arg	Pro Lys	
305	310	

&lt;210&gt; 2414

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (p183-dir-0-11 conceptual translation of range 1-936)

&lt;400&gt;2414

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly	1	5	10	15
Ile Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu	20	25	30	
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala	35	40	45	
Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala	50	55	60	
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys	65	70	75	80
Met Leu Val Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly	85	90	95	
Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn	100	105	110	
Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys	115	120	125	
Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu	130	135	140	
Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr	145	150	155	160
Leu Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr	165	170	175	
Leu Phe Cys Asp Met Tyr Ile Leu Leu Arg Leu Ala Cys Ser Asn Thr	180	185	190	
His Ile Ile His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu	195	200	205	
Thr Pro Leu Gly Phe Met Thr Thr Ser Tyr Val Cys Ile Val Arg Thr	210	215	220	
Ile Leu Gln Ile Pro Ser Ala Ser Lys Lys Tyr Lys Ala Phe Ser Thr	225	230	235	240
Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala	245	250	255	
Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val	260	265	270	
Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile	275	280	285	
Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Val Leu	290	295	300	
Arg Arg Leu Phe Gln Arg Pro Lys				

305

310

&lt;210&gt; 2415

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (p186-dir-0-11 conceptual translation of range 1-936)

&lt;400&gt;2415

```

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly
 1          5          10          15
Ile Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu
          20          25          30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala
          35          40          45
Ile Ser Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala
          50          55          60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
          65          70          75          80
Met Leu Val Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly
          85          90          95
Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn
          100          105          110
Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys
          115          120          125
Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu
          130          135          140
Leu Ser Leu Cys Trp Gly Leu Ser Val Phe Tyr Gly Leu Leu Leu Thr
          145          150          155          160
Leu Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr
          165          170          175
Leu Phe Cys Asp Met Tyr Ile Leu Leu Arg Leu Ala Cys Ser Asn Thr
          180          185          190
His Ile Ile His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu
          195          200          205
Thr Pro Leu Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr
          210          215          220
Ile Leu Gln Ile Pro Ser Ala Ser Lys Lys Tyr Lys Ala Phe Ser Thr
          225          230          235          240
Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala
          245          250          255
Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val
          260          265          270
Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile
          275          280          285
His Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Val Leu
          290          295          300
Arg Arg Leu Phe Gln Arg Pro Lys
305          310

```

&lt;210&gt; 2416

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (p140-dir-0-8 conceptual translation of range 2-646)

&lt;400&gt;2416

```

Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val
 1          5          10          15
Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly Cys Leu Thr
          20          25          30
Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn Leu Ile Leu
          35          40          45

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```

Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys Pro Leu His
 50          55          60
Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu Leu Ser Leu
65          70          75          80
Cys Trp Gly Leu Ser Val Phe Tyr Gly Leu Leu Leu Thr Leu Leu Leu
      85          90          95
Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr Phe Phe Cys
      100          105          110
Asp Met Tyr Ile Leu Leu Arg Leu Ala Cys Ser Asn Thr His Ile Ile
      115          120          125
His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu Thr Pro Leu
      130          135          140
Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr Ile Leu Gln
145          150          155          160
Ile Pro Ser Ala Ser Lys Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser
      165          170          175
His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala Met Val Cys
      180          185          190
Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val
      195          200          205
Met Tyr Ala Val Val Thr Pro
      210          215

```

&lt;210&gt; 2417

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (p141-dir-0-8 conceptual translation of range 2-646)

&lt;400&gt;2417

```

Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Asn Met Leu Val
 1          5          10          15
Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly Cys Leu Thr
      20          25          30
Lys Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn Leu Ile Leu
      35          40          45
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys Pro Leu His
      50          55          60
Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu Leu Ser Leu
65          70          75          80
Gly Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr Leu Leu Met
      85          90          95
Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr Leu Phe Cys
      100          105          110
Glu Met Tyr Val Leu Leu Arg Leu Ala Cys Ser Asn Thr His Ile Ile
      115          120          125
His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu Thr Pro Leu
      130          135          140
Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr Ile Leu Gln
145          150          155          160
Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr Cys Ala Ser
      165          170          175
His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala Met Val Tyr
      180          185          190
Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val
      195          200          205
Met Tyr Ala Val Val Thr Pro
      210          215

```

&lt;210&gt; 2418

&lt;211&gt; 312

&lt;212&gt; PRT

<213> Unknown (p187-dir-0-11 conceptual translation of range 1-936)

<400>2418

```

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Leu Gly
 1          5          10          15
Ile Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu
          20          25          30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala
 35          40          45
Ile Ser Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50          55          60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
 65          70          75          80
Met Leu Val Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Glu
          85          90          95
Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn
          100          105          110
Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys
          115          120          125
Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu
          130          135          140
Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Leu Thr
          145          150          155          160
Leu Leu Met Asn Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr
          165          170          175
Leu Phe Cys Glu Met Tyr Val Leu Leu Arg Leu Ala Cys Ser Asn Thr
          180          185          190
His Ile Ile His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu
          195          200          205
Thr Pro Leu Gly Phe Met Thr Thr Ser Tyr Val His Ile Val Arg Thr
          210          215          220
Ile Leu Gln Ile Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr
          225          230          235          240
Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala
          245          250          255
Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val
          260          265          270
Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile
          275          280          285
Tyr Ser Leu Arg Asn Lys Asp Met His Gly Val Leu Gly Arg Val Leu
          290          295          300
Gly Arg Pro Phe Gln Arg Pro Lys
          305          310

```

<210> 2419

<211> 211

<212> PRT

<213> Unknown (p167-dir-0-8 conceptual translation of range 2-634)

<400>2419

```

Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val
 1          5          10          15
Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly Cys Leu Thr
          20          25          30
Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn Leu Ile Leu
          35          40          45
Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu His Tyr
          50          55          60
Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu Cys Leu Cys
          65          70          75          80
Trp Ser Val Leu Tyr Gly Leu Leu Leu Thr Leu Leu Met Thr Thr Val

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```

      85      90      95
Thr Phe Cys Gly Ser Arg Lys Ile His Tyr Leu Phe Cys Glu Met Tyr
      100      105      110
Val Leu Leu Arg Leu Ala Cys Ser Asn Thr His Ile Ile His Thr Val
      115      120      125
Leu Val Ala Thr Gly Cys Phe Phe Leu Thr Pro Leu Gly Phe Thr Thr
      130      135      140
Thr Ser Tyr Val Arg Ile Val Arg Thr Ile Leu Gln Ile Pro Ser Val
      145      150      155      160
Pro Lys Lys Tyr Lys Thr Phe Ser Thr Cys Ala Ser His Leu Gly Val
      165      170      175
Val Ser Leu Phe Tyr Gly Thr Leu Val Met Val Tyr Leu Gln Pro Leu
      180      185      190
His Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val Met Tyr Ala Val
      195      200      205
Val Thr Pro
      210

```

&lt;210&gt; 2420

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Unknown (p168-dir-0-8 conceptual translation of range 2-632)

&lt;400&gt;2420

```

Phe Thr Asp Leu Phe Phe Val Thr Asn Ile Pro Lys Met Leu Val Asn
  1          5          10          15
Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly Cys Leu Thr Gln
      20      25      30
Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn Leu Ile Leu Ala
      35      40      45
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu His Tyr Val
      50      55      60
Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu Leu Cys Leu Cys Trp
      65      70      75      80
Ser Val Leu Tyr Gly Leu Leu Leu Thr Leu Leu Met Thr Thr Val Thr
      85      90      95
Phe Cys Gly Ser Arg Lys Ile His Tyr Leu Phe Cys Glu Met Tyr Val
      100      105      110
Leu Leu Arg Leu Ala Cys Ser Asn Thr His Ile Ile His Thr Val Leu
      115      120      125
Val Ala Thr Gly Cys Phe Phe Leu Thr Pro Leu Gly Phe Thr Thr Thr
      130      135      140
Ser Tyr Ile Arg Ile Val Arg Thr Ile Leu Gln Ile Pro Ser Val Pro
      145      150      155      160
Lys Lys Tyr Lys Thr Phe Ser Thr Cys Ala Ser His Leu Gly Val Val
      165      170      175
Ser Leu Phe Tyr Gly Thr Leu Val Met Val Tyr Leu Gln Pro Leu His
      180      185      190
Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val Met Tyr Ala Val Val
      195      200      205
Thr Pro
      210

```

&lt;210&gt; 2421

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (p145-dir-0-11 conceptual translation of range 1-937)

&lt;400&gt;2421

```

Met Asp Gly Gly Asn Gln Ser Glu Gly Ser Glu Phe Leu Leu Leu Gly
  1          5          10          15

```

```

Ile Ser Glu Ser Pro Glu Gln Gln Gln Met Leu Phe Trp Met Phe Leu
      20      25      30
Val Arg Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala
      35      40      45
Ile Ser Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala
      50      55      60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
      65      70      75      80
Met Leu Val Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Thr Gly
      85      90      95
Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn
      100      105      110
Leu Asn Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg
      115      120      125
Pro Leu His Tyr Val Thr Ala Met Ile Pro Gly Leu Cys Ile Leu Leu
      130      135      140
Leu Ser Leu Cys Trp Val Phe Ser Ala Leu Tyr Gly Leu Ile His Ile
      145      150      155      160
Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr
      165      170      175
Leu Phe Cys Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile
      180      185      190
His Val Asn His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu
      195      200      205
Ile Pro Leu Gly Phe Met Ile Thr Ser Tyr Ala Arg Ile Val Arg Ala
      210      215      220
Ile Leu Gln Ile Pro Ser Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr
      225      230      235      240
Cys Ala Ser His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Leu Gly
      245      250      255
Met Val Tyr Leu Gln Pro Leu Gln Thr Tyr Ser Met Lys Asp Ser Val
      260      265      270
Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Ile Asn Pro Phe Ile
      275      280      285
Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Leu Arg
      290      295      300
Gln Gly Lys Ala Phe Gln Lys Leu Thr
      305      310

```

&lt;210&gt; 2422

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Unknown (3831606-dir-0-8 conceptual translation of range 2-642)

&lt;400&gt;2422

```

Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val
  1      5      10      15
Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Thr Gly Cys Leu Thr
      20      25      30
Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn Leu Asn Leu
      35      40      45
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His
      50      55      60
Tyr Val Thr Ala Met Ile Pro Gly Leu Cys Ile Leu Leu Ser Leu
      65      70      75      80
Cys Trp Val Phe Ser Ala Leu Tyr Gly Leu Ile His Ile Leu Leu Met
      85      90      95
Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr Leu Phe Cys
      100      105      110
Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile His Val Asn
      115      120      125

```

His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu Ile Pro Leu  
 130 135 140  
 Gly Phe Met Ile Thr Ser Asn Ala Arg Ile Val Arg Ala Ile Leu Gln  
 145 150 155 160  
 Ile Pro Ser Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser  
 165 170 175  
 His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Leu Gly Met Val Tyr  
 180 185 190  
 Leu Gln Pro Leu Gln Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val  
 195 200 205  
 Met His Ala Val Val Thr  
 210

&lt;210&gt; 2423

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Unknown (p35-dir-0-11 conceptual translation of range 1-954)

&lt;400&gt;2423

Met Asp Gly Gly Asn Gln Ser Glu Gly Ser Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Met Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu  
 20 25 30  
 Val Met Tyr Leu Val Thr Val Val Gly Asn Val Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Ser Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Ser Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly  
 85 90 95  
 Cys Leu Met Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn  
 100 105 110  
 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg  
 115 120 125  
 Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Ile Leu Leu  
 130 135 140  
 Leu Ser Leu Cys Trp Gly Phe Ser Ala Leu Tyr Gly Leu Ile His Ile  
 145 150 155 160  
 Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr  
 165 170 175  
 Leu Phe Cys Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile  
 180 185 190  
 His Val Asn His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu  
 195 200 205  
 Ile Pro Leu Gly Phe Met Ile Thr Ser Tyr Ala His Ile Val Arg Ala  
 210 215 220  
 Ile Leu Gln Ile Pro Ser Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Ser Ala Ser His Leu Ala Val Val Phe Leu Phe Tyr Gly Thr Leu Gly  
 245 250 255  
 Met Val Tyr Leu Gln Pro Leu His Asn Leu Gln Pro Leu Gln Thr Tyr  
 260 265 270  
 Ser Met Lys Asp Ser Val Ala Thr Val Met Tyr Ala Val Val Thr Pro  
 275 280 285  
 Met Ile Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met His Gly  
 290 295 300  
 Ala Leu Gly Arg Leu Arg Gln Gly Lys Ala Phe Gln Lys Leu Thr  
 305 310 315

&lt;210&gt; 2424

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (p34-dir-0-11 conceptual translation of range 1-937)

&lt;400&gt;2424

```

Met Asp Gly Gly Asn Gln Ser Glu Gly Ser Glu Phe Leu Leu Leu Gly
 1          5          10          15
Met Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu
 20          25          30
Val Met Tyr Leu Val Thr Val Val Gly Asn Val Leu Ile Ile Leu Ala
 35          40          45
Ile Ser Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala
 50          55          60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
 65          70          75          80
Met Leu Val Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly
 85          90          95
Cys Leu Met Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn
 100         105         110
Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg
 115         120         125
Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Ile Leu Leu
 130         135         140
Leu Ser Leu Cys Trp Gly Phe Ser Ala Leu Tyr Gly Leu Ile His Ile
 145         150         155         160
Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr
 165         170         175
Leu Phe Cys Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile
 180         185         190
His Val Asn His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu
 195         200         205
Ile Pro Leu Gly Phe Met Ile Thr Ser Tyr Ala His Ile Val Arg Ala
 210         215         220
Ile Leu Gln Ile Pro Ser Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr
 225         230         235         240
Cys Ala Ser His Leu Ala Val Val Phe Leu Phe Tyr Gly Thr Val Gly
 245         250         255
Met Val Tyr Leu Gln Pro Leu Gln Thr Tyr Ser Met Lys Asp Ser Val
 260         265         270
Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Ile Asn Pro Phe Ile
 275         280         285
Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Leu Arg
 290         295         300
Gln Gly Lys Ala Phe Gln Lys Leu Thr
305          310

```

&lt;210&gt; 2425

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (p87-dir-0-11 conceptual translation of range 1-937)

&lt;400&gt;2425

```

Met Asp Gly Asp Asn Gln Ser Glu Gly Ser Glu Phe Leu Leu Arg Gly
 1          5          10          15
Ile Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu
 20          25          30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Phe Ile Ile Leu Ala
 35          40          45
Ile Ser Ser Asp Ser Arg Leu His Thr Pro Val Tyr Phe Phe Leu Ala
 50          55          60
Asn Phe Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys

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```

65          70          75          80
Met Pro Val Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly
          85          90          95
Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn
          100          105          110
Leu Ile Pro Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg
          115          120          125
Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Ile Leu Leu
          130          135          140
Leu Ser Met Cys Trp Val Phe Ser Ala Leu Tyr Gly Leu Ile His Ile
145          150          155          160
Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr
          165          170          175
Leu Phe Cys Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile
          180          185          190
His Val Asn His Thr Val Leu Val Ala Met Gly Cys Phe Ile Phe Leu
          195          200          205
Ile Pro Leu Gly Phe Met Ile Thr Ser Tyr Ala Arg Ile Val Arg Ala
          210          215          220
Ile Leu Gln Ile Pro Pro Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr
225          230          235          240
Cys Ala Ser His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Leu Gly
          245          250          255
Ile Val Tyr Leu Gln Pro Pro Gln Thr Tyr Ser Met Lys Asp Ser Val
          260          265          270
Ala Thr Val Met Tyr Val Val Val Thr Pro Met Ile Asn Pro Phe Ile
          275          280          285
Tyr Ser Leu Arg Asn Lys Asp Met His Gly Asp Leu Gly Arg Leu Arg
          290          295          300
Gln Gly Lys Ala Phe Gln Lys Leu Thr
305          310

```

&lt;210&gt; 2426

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (p136-dir-0-11 conceptual translation of range 1-939)

&lt;400&gt;2426

```

Met Asp Gly Gly Asn Gln Ser Lys Gly Ser Glu Phe Leu Leu Leu Gly
1          5          10          15
Met Ser Glu Ser Pro Glu Gln Gln Arg Ile Leu Phe Trp Met Phe Leu
          20          25          30
Ser Met Tyr Leu Val Thr Val Val Gly Asn Ala Leu Ile Ile Leu Ala
          35          40          45
Ile Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Val
          50          55          60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys
65          70          75          80
Met Leu Val Asn Leu Gln Ser Gln Asn Lys Ala Ile Ala Tyr Ala Gly
          85          90          95
Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn
          100          105          110
Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
          115          120          125
Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Ile Leu Leu
          130          135          140
Leu Ser Leu Cys Trp Val Phe Ser Val Leu Tyr Gly Leu Ile His Thr
145          150          155          160
Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Arg Lys Ile His Tyr
          165          170          175
Leu Phe Cys Glu Met Tyr Val Leu Leu Gln Leu Ala Cys Ser Asn Ile

```

```
<210> 2427
<211> 313
<212> PRT
<213> Unknown (p163-dir-0-11 conceptual translation of range 1-939)
```

Met 1	Asp	Gly	Gly	Asn 5	Gln	Ser	Glu	Gly	Ser 10	Glu	Phe	Leu	Leu	Leu 15	Gly
Met	Ser	Glu	Ser 20	Pro	Glu	Gln	Gln	Arg 25	Ile	Leu	Phe	Trp 30	Met	Phe	Leu
Ser	Met	Tyr 35	Leu	Val	Thr	Val	Leu 40	Gly	Asn	Val	Leu	Ile 45	Ile	Leu	Ala
Ile	Ser 50	Ser	Asp	Ser	Arg 55	Leu	His	Thr	Pro	Met	Tyr 60	Phe	Phe	Leu	Ala
Asn 65	Leu	Ser	Phe	Thr	Asp 70	Leu	Phe	Phe	Val	Thr 75	Asn	Thr	Ile	Pro	Lys 80
Met	Leu	Val	Asn 85	Leu	Gln	Ser	Gln	Asp	Lys 90	Ala	Ile	Ser	Tyr	Ala	Gly
Cys	Leu	Thr	Gln 100	Leu	Tyr	Phe	Leu	Leu 105	Ser	Leu	Val	Thr	Leu	Asp	Asn
Leu	Ile	Leu	Ala 115	Val	Met	Ala	Tyr	Asp 120	Arg	Tyr	Val	Ala	Ile	Cys	Cys
Pro	Leu 130	His	Tyr	Val	Thr	Ala	Met	Ser 135	Pro	Arg	Leu	Cys	Ile	Leu	Leu
Leu 145	Ser	Leu	Cys	Trp	Val 150	Phe	Ser	Val	Leu	Tyr	Gly 155	Leu	Ile	His	Thr
Leu	Leu	Met	Thr	Arg 165	Val	Thr	Phe	Cys	Gly 170	Ser	Arg	Lys	Ile	His	Tyr
Leu	Phe	Cys	Glu 180	Met	Tyr	Phe	Leu	Leu 185	Arg	Leu	Ala	Cys	Ser	Asn	Ile
Gln	Ile	Asn 195	His	Thr	Val	Leu	Ile	Ala 200	Thr	Gly	Cys	Phe	Ile	Phe	Leu
Ile	Pro 210	Leu	Gly	Phe	Met	Ile	Thr	Ser 215	Tyr	Ala	Arg	Ile	Val	Arg	Ala
Ile 225	Leu	Arg	Ile	Pro	Ser 230	Ala	Thr	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
Cys	Ala	Ser	His	Leu 245	Ala	Val	Val	Ser	Leu 250	Phe	Tyr	Gly	Thr	Leu	Gly
Met	Val	Tyr	Leu 260	Gln	Pro	Leu	Gln	Thr 265	Tyr	Ser	Thr	Lys	Asp	Ser	Val
Ala	Thr	Val 275	Met	Tyr	Ala	Val	Val	Thr 280	Pro	Met	Met	Asn	Pro	Phe	Ile
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	His	Gly	Ala	Leu	Gly	Arg	Leu	Leu

290                      295                      300  
 Gln Gly Lys Ala Phe Gln Lys Leu Thr  
 305                      310

<210> 2428

<211> 312

<212> PRT

<213> Unknown (p18-dir-0-11 conceptual translation of range 1-936)

<400>2428

Met Asp Gly Gly Asn Gln Ser Glu Gly Ser Glu Phe Leu Leu Leu Gly  
 1                      5                      10                      15  
 Met Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu  
                     20                      25                      30  
 Ser Met Tyr Leu Val Thr Val Val Gly Asn Val Leu Ile Ile Leu Ala  
                     35                      40                      45  
 Ile Ser Ser Asp Ser Arg Leu His Thr Pro Val Tyr Phe Phe Leu Ala  
                     50                      55                      60  
 Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys  
 65                      70                      75                      80  
 Met Leu Val Asn Leu Gln Ser His Asn Lys Ala Ile Ser Tyr Ala Gly  
                     85                      90                      95  
 Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn  
                     100                      105                      110  
 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys  
                     115                      120                      125  
 Pro Leu His Tyr Thr Thr Ala Met Ser Pro Lys Leu Cys Ile Leu Leu  
 130                      135                      140  
 Leu Ser Leu Cys Trp Val Leu Ser Val Leu Tyr Gly Leu Ile His Thr  
 145                      150                      155                      160  
 Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Arg Lys Ile His Tyr  
                     165                      170                      175  
 Ile Phe Cys Glu Met Tyr Val Leu Leu Arg Met Ala Cys Ser Asn Ile  
                     180                      185                      190  
 Gln Ile Asn His Thr Val Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu  
                     195                      200                      205  
 Ile Pro Phe Gly Phe Val Ile Ile Ser Tyr Val Leu Ile Ile Arg Ala  
 210                      215                      220  
 Ile Leu Arg Ile Pro Ser Val Ser Lys Lys Tyr Lys Ala Phe Ser Thr  
 225                      230                      235                      240  
 Cys Ala Ser His Leu Gly Ala Val Ser Leu Phe Tyr Gly Thr Leu Cys  
                     245                      250                      255  
 Met Val Tyr Leu Lys Pro Leu His Thr Tyr Ser Val Lys Asp Ser Val  
                     260                      265                      270  
 Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile  
                     275                      280                      285  
 Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Leu Leu  
 290                      295                      300  
 Asp Lys His Phe Lys Arg Leu Thr  
 305                      310

<210> 2429

<211> 312

<212> PRT

<213> Unknown (p32-dir-0-11 conceptual translation of range 1-936)

<400>2429

Met Asp Gly Gly Asn Gln Ser Glu Gly Ser Glu Phe Leu Leu Leu Gly  
 1                      5                      10                      15  
 Met Ser Glu Ser Pro Glu Gln Gln Gln Ile Leu Phe Trp Met Phe Leu  
                     20                      25                      30

Ser Met Tyr Leu Val Thr Val Val Gly Asn Val Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Asn Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly  
 85 90 95  
 Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn  
 100 105 110  
 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys  
 115 120 125  
 Pro Leu His Tyr Thr Thr Ala Met Ser Pro Lys Leu Cys Ile Leu Leu  
 130 135 140  
 Leu Ser Leu Cys Trp Val Leu Ser Val Leu Tyr Gly Leu Ile His Thr  
 145 150 155 160  
 Ile Leu Met Thr Arg Val Thr Phe Cys Gly Ser Arg Lys Ile His Tyr  
 165 170 175  
 Ile Phe Cys Glu Met Tyr Val Leu Leu Arg Met Ala Cys Ser Asn Ile  
 180 185 190  
 Gln Ile Asn His Thr Val Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu  
 195 200 205  
 Ile Pro Phe Gly Phe Val Ile Ile Ser Tyr Val Leu Ile Ile Arg Ala  
 210 215 220  
 Ile Leu Arg Ile Pro Ser Val Ser Lys Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Gly Ala Val Ser Leu Phe Tyr Gly Thr Leu Cys  
 245 250 255  
 Met Val Tyr Leu Lys Pro Leu His Thr Phe Ser Val Lys Asp Ser Val  
 260 265 270  
 Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Leu Leu  
 290 295 300  
 Asp Thr His Phe Lys Arg Leu Thr  
 305 310

&lt;210&gt; 2430

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (p130-dir-0-11 conceptual translation of range 1-936)

&lt;400&gt;2430

Met Asp Gly Gly Asn Gln Ser Glu Gly Ser Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Met Ser Glu Ser Pro Glu Gln Gln Arg Ile Leu Phe Trp Met Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Val Val Gly Asn Val Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Ser Ser Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly  
 85 90 95  
 Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn  
 100 105 110  
 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys  
 115 120 125  
 Pro Leu His Tyr Thr Thr Ala Met Ser Pro Lys Leu Cys Ile Leu Leu  
 130 135 140



Leu Ser Leu Cys Trp Val Leu Ser Val Leu Tyr Gly Leu Ile His Thr  
 145 150 155 160  
 Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Arg Lys Ile His Tyr  
 165 170 175  
 Ile Phe Cys Glu Met Tyr Val Leu Leu Arg Met Ala Cys Ser Asn Ile  
 180 185 190  
 Gln Thr Asn His Thr Val Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu  
 195 200 205  
 Ile Pro Phe Gly Phe Val Ile Ile Ser Tyr Val Leu Ile Ile Arg Ala  
 210 215 220  
 Ile Leu Arg Ile Pro Ser Leu Ser Lys Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Gly Ala Val Ser Leu Phe Tyr Gly Thr Leu Cys  
 245 250 255  
 Met Val Tyr Leu Lys Pro Leu His Thr Tyr Ser Val Lys Asp Ser Val  
 260 265 270  
 Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Leu Leu  
 290 295 300  
 Asp Lys His Phe Lys Arg Leu Thr  
 305 310

&lt;210&gt; 2431

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (p143-dir-0-8 conceptual translation of range 2-646)

&lt;400&gt;2431

Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val  
 1 5 10 15  
 Ser Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Pro Gly Cys Leu Thr  
 20 25 30  
 Gln Leu Phe Phe Leu Val Ser Leu Val Ala Leu Asp Asn Leu Ile Leu  
 35 40 45  
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu His  
 50 55 60  
 Tyr Thr Thr Ala Met Ser Pro Lys Leu Cys Ile Leu Leu Leu Ile Leu  
 65 70 75 80  
 Cys Trp Ala Leu Ser Ile Leu Tyr Gly Leu Ile His Thr Leu Leu Met  
 85 90 95  
 Thr Arg Val Thr Phe Cys Gly Ser Arg Lys Ile His Tyr Ile Phe Cys  
 100 105 110  
 Glu Met Tyr Val Leu Leu Arg Leu Ala Cys Ser Asn Thr His Ile Asn  
 115 120 125  
 His Met Met Leu Ile Ala Thr Gly Cys Phe Val Phe Leu Val Pro Phe  
 130 135 140  
 Gly Phe Met Ile Met Ser Tyr Ile Cys Ile Val Arg Ala Ile Leu Lys  
 145 150 155 160  
 Ile Pro Ser Ala Ser Asn Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser  
 165 170 175  
 His Leu Ala Val Val Ala Leu Phe Tyr Gly Thr Leu Cys Met Val Tyr  
 180 185 190  
 Leu Lys Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val  
 195 200 205  
 Met Tyr Ala Val Val Thr Pro  
 210 215

&lt;210&gt; 2432

&lt;211&gt; 312

&lt;212&gt; PRT

<213> Unknown (p89-dir-0-11 conceptual translation of range 1-935)

<220>

<221> VARIANT

<222> (1)...(312)

<223> Xaa = Any Amino Acid

<400>2432

```

Met Arg Glu Asn Asn Gln Ser Ser Thr Leu Glu Phe Ile Leu Leu Gly
 1           5           10           15
Val Thr Gly Gln Gln Glu Gln Glu Asp Phe Phe Tyr Ile Leu Phe Leu
           20           25           30
Phe Ile Tyr Pro Ile Thr Leu Ile Gly Asn Leu Leu Ile Val Leu Ala
           35           40           45
Ile Cys Ser Asp Val His Leu His Asn Pro Met Tyr Phe Leu Leu Ala
           50           55           60
Asn Leu Ser Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys
           65           70           75           80
Met Leu Ala Asn His Leu Ser Gly Ser Lys Ser Ile Ser Phe Gly Gly
           85           90           95
Cys Leu Thr Gln Met Tyr Phe Met Ile Asp Leu Gly Asn Thr Asp Ser
           100          105          110
Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Arg
           115          120          125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Trp Leu
           130          135          140
Ile Ala Gly Ser Trp Val Ile Gly Asn Ala Asn Ala Leu Pro His Thr
           145          150          155          160
Leu Leu Thr Ala Ser Leu Ser Phe Xaa Gly Asn Gln Glu Val Ala Asn
           165          170          175
Phe Tyr Cys Asp Ile Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Ile
           180          185          190
Arg Phe His Val Lys Met Met Tyr Leu Gly Val Gly Ile Phe Pro Val
           195          200          205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Ile Arg Val Phe Ser Thr Val
           210          215          220
Phe Gln Val Pro Ser Thr Lys Gly Val Leu Lys Ala Phe Ser Thr Cys
           225          230          235          240
Gly Ser His Leu Thr Val Val Cys Phe Val Tyr Gly Thr Val Met Gly
           245          250          255
Met Tyr Phe Arg Pro Leu Thr Asn Tyr Ser Leu Lys Asp Ala Val Ile
           260          265          270
Thr Val Met Cys Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
           275          280          285
Ser Leu Arg Asn Arg Asp Met Lys Ala Ala Leu Gln Lys Leu Phe Asn
           290          295          300
Lys Arg Ile Ser Ser Xaa Pro Met
           305          310

```

<210> 2433

<211> 312

<212> PRT

<213> Unknown (p88-dir-0-11 conceptual translation of range 1-936)

<220>

<221> VARIANT

<222> (1)...(312)

<223> Xaa = Any Amino Acid

<400>2433

```

Met Arg Glu Asn Asn Gln Ser Ser Thr Leu Glu Phe Ile Leu Leu Gly

```

1	5	10	15
Val Thr Gly Gln Gln Glu Gln Glu Asp Phe Phe Tyr Ile Leu Phe Leu			
	20	25	30
Phe Ile Tyr Pro Ile Thr Leu Ile Gly Asn Leu Leu Ile Val Leu Ala			
	35	40	45
Ile Cys Ser Asp Val His Leu His Asn Pro Met Tyr Phe Leu Leu Ala			
	50	55	60
Asn Leu Ser Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys			
	65	70	75
Met Leu Ala Asn His Leu Ser Gly Ser Lys Ser Ile Ser Phe Gly Gly			
	85	90	95
Cys Leu Thr Gln Met Tyr Phe Met Ile Asp Leu Gly Asn Thr Asp Ser			
	100	105	110
Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Arg			
	115	120	125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Trp Leu			
	130	135	140
Ile Ala Gly Ser Trp Val Ile Gly Asn Ala Asn Ala Leu Pro His Thr			
	145	150	155
Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn			
	165	170	175
Phe Tyr Cys Asp Ile Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Ile			
	180	185	190
His Phe His Val Lys Met Met Tyr Leu Gly Val Gly Ile Phe Ser Val			
	195	200	205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Ile Arg Val Phe Ser Thr Val			
	210	215	220
Phe Gln Val Pro Ser Thr Lys Gly Val Leu Lys Ala Phe Ser Thr Cys			
	225	230	235
Gly Ser His Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Gly			
	245	250	255
Met Tyr Phe Arg Pro Leu Thr Asn Tyr Ser Leu Lys Asp Ala Val Ile			
	260	265	270
Thr Val Met Cys Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr			
	275	280	285
Ser Leu Arg Asn Arg Asp Met Lys Ala Ala Leu Gln Lys Leu Phe Asn			
	290	295	300
Lys Arg Ile Ser Ser Xaa Pro Met			
305	310		

&lt;210&gt; 2434

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (p33-dir-0-11 conceptual translation of range 1-936)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(312)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2434

Met Arg Glu Asn Asn Gln Ser Ser Thr Leu Glu Phe Ile Leu Leu Gly			
1	5	10	15
Val Thr Gly Gln Gln Glu Gln Glu Asp Phe Phe Tyr Ile Leu Phe Leu			
	20	25	30
Phe Ile Tyr Pro Ile Thr Leu Ile Gly Asn Leu Leu Ile Ile Leu Ala			
	35	40	45
Ile Cys Ser Asp Val His Leu His Asn Pro Met Tyr Phe Leu Leu Ala			
	50	55	60
Asn Leu Ser Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys			
	65	70	75
			80

```

Met Leu Ala Asn His Leu Ser Gly Ser Lys Ser Ile Ser Phe Gly Gly
      85                      90                      95
Cys Leu Thr Gln Met Tyr Phe Met Ile Asp Leu Gly Asn Thr Asp Ser
      100                    105                    110
Tyr Ile Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Arg
      115                    120                    125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Trp Leu
      130                    135                    140
Ile Ala Gly Ser Trp Val Ile Gly Asn Ala Asn Ala Leu Pro His Thr
145      150                    155                    160
Leu Leu Thr Ala Ser Leu Ser Phe Xaa Gly Asn Gln Glu Val Ala Asn
      165                    170                    175
Phe Tyr Cys Asp Ile Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Ile
      180                    185                    190
His Phe His Val Lys Met Met Tyr Leu Gly Val Gly Ile Phe Ser Val
      195                    200                    205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Ile Arg Val Phe Ser Thr Val
      210                    215                    220
Phe Gln Gly Pro Ser Thr Lys Gly Val Leu Lys Ala Phe Ser Thr Cys
225      230                    235                    240
Gly Ser His Leu Thr Val Val Ser Leu Asp Tyr Gly Thr Val Lys Gly
      245                    250                    255
Lys Tyr Phe Arg Pro Leu Thr Asn Tyr Ser Leu Lys Asp Ala Val Ile
      260                    265                    270
Thr Val Met Cys Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
      275                    280                    285
Ser Leu Arg Asn Arg Asp Met Lys Ala Ala Leu Gln Lys Leu Phe Asn
      290                    295                    300
Lys Arg Ile Ser Ser Xaa Pro Met
305      310

```

&lt;210&gt; 2435

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (p43-dir-0-11 conceptual translation of range 1-936)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(312)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2435

```

Met Arg Glu Asn Asn Gln Ser Ser Thr Leu Glu Phe Ile Leu Leu Gly
  1      5                      10                      15
Val Thr Gly Gln Gln Glu Glu Asp Phe Phe Tyr Ile Leu Phe Leu
      20                    25                    30
Phe Ile Tyr Pro Ile Thr Leu Ile Gly Asn Leu Leu Ile Val Leu Ala
      35                    40                    45
Ile Cys Ser Asp Val Arg Leu His Asn Pro Met Tyr Phe Leu Leu Ala
      50                    55                    60
Asn Leu Ser Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys
      65                    70                    75                    80
Met Leu Ala Asn His Leu Leu Gly Ser Lys Ser Ile Ser Phe Gly Gly
      85                      90                      95
Cys Leu Thr Gln Met Tyr Phe Met Ile Ala Leu Gly Asn Thr Asp Ser
      100                    105                    110
Tyr Ile Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser His
      115                    120                    125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Trp Leu
      130                    135                    140
Ile Ala Gly Ser Trp Val Ile Gly Asn Ala Asn Ala Leu Pro His Thr

```

```

145          150          155          160
Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn
165          170          175
Phe Tyr Cys Asp Ile Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Ile
180          185          190
His Phe His Val Lys Met Met Tyr Leu Gly Val Gly Ile Phe Ser Val
195          200          205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Ile Arg Val Phe Ser Thr Val
210          215          220
Phe Gln Val Pro Ser Thr Lys Gly Val Leu Lys Ala Phe Ser Thr Cys
225          230          235          240
Gly Ser His Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Gly
245          250          255
Thr Tyr Phe Arg Pro Leu Thr Asn Tyr Ser Leu Lys Asp Ala Val Ile
260          265          270
Thr Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
275          280          285
Ser Leu Arg Asn Arg Asp Met Lys Ala Ala Leu Arg Lys Leu Phe Asn
290          295          300
Lys Arg Ile Ser Ser Xaa Pro Met
305          310

```

&lt;210&gt; 2436

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (p180-dir-0-11 conceptual translation of range 1-927)

&lt;400&gt;2436

```

Met Arg Glu Asn Asn Gln Ser Ser Thr Leu Glu Phe Ile Leu Leu Gly
1 5 10 15
Val Thr Gly Gln Gln Glu Glu Asp Phe Phe Tyr Ile Leu Phe Leu
20 25 30
Phe Ile Tyr Pro Ile Thr Leu Ile Gly Asn Leu Leu Ile Val Leu Ala
35 40 45
Ile Cys Ser Asp Val His Leu His Asn Pro Met Tyr Phe Leu Leu Ala
50 55 60
Asn Leu Ser Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys
65 70 75 80
Met Leu Ala Asn His Leu Leu Gly Ser Lys Ser Ile Ser Phe Gly Gly
85 90 95
Cys Leu Thr Gln Met Tyr Phe Met Ile Ala Leu Gly Asn Thr Asp Ser
100 105 110
Tyr Ile Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Arg
115 120 125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Trp Leu
130 135 140
Ile Ala Gly Ser Trp Val Ile Gly Asn Ala Asn Ala Leu Pro His Thr
145 150 155 160
Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn
165 170 175
Phe Tyr Cys Asp Ile Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Ile
180 185 190
His Phe His Val Lys Met Met Tyr Leu Gly Val Gly Ile Phe Ser Val
195 200 205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Ile Arg Val Phe Ser Thr Val
210 215 220
Phe Gln Val Pro Ser Thr Lys Gly Val Leu Lys Ala Phe Ser Thr Cys
225 230 235 240
Gly Ser His Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Gly
245 250 255
Met Tyr Phe Arg Pro Leu Thr Asn Tyr Ser Leu Lys Asp Ala Val Ile

```

```

                260                265                270
Thr Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
                275                280                285
Ser Leu Arg Asn Arg Asp Val Lys Ala Ala Leu Arg Lys Leu Phe Asn
                290                295                300
Lys Arg Ile Ser Ser
305

```

&lt;210&gt; 2437

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (p204-dir-0-11 conceptual translation of range 1-927)

&lt;400&gt;2437

```

Met Lys Lys Glu Asn Gln Ser Phe Asn Leu Asp Phe Ile Leu Leu Gly
 1          5          10          15
Val Thr Ser Gln Gln Glu Gln Asn Asn Val Phe Phe Val Ile Phe Leu
 20          25          30
Cys Ile Tyr Pro Ile Thr Leu Thr Gly Asn Leu Leu Ile Ile Leu Ala
 35          40          45
Ile Cys Ala Asp Ile Arg Leu His Asn Pro Met Tyr Phe Leu Leu Ala
 50          55          60
Asn Leu Ser Leu Val Asp Ile Ile Phe Ser Ser Val Thr Ile Pro Lys
 65          70          75          80
Val Leu Ala Asn His Leu Leu Gly Ser Lys Phe Ile Ser Phe Gly Gly
 85          90          95
Cys Leu Met Gln Met Tyr Phe Met Ile Ala Leu Ala Lys Ala Asp Ser
100          105          110
Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Cys
115          120          125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Arg Ser Cys Ile Leu Leu
130          135          140
Ile Ala Gly Ser Trp Val Ile Gly Asn Thr Ser Ala Leu Pro His Thr
145          150          155          160
Leu Leu Thr Ala Ser Leu Ser Phe Cys Gly Asn Gln Glu Val Ala Asn
165          170          175
Phe Tyr Cys Asp Ile Met Pro Leu Leu Lys Leu Ser Cys Ser Asp Val
180          185          190
His Phe Asn Val Lys Met Met Tyr Leu Gly Val Gly Val Phe Ser Leu
195          200          205
Pro Leu Leu Cys Ile Ile Val Ser Tyr Val Gln Val Phe Ser Thr Val
210          215          220
Phe Gln Val Pro Ser Thr Lys Ser Leu Phe Lys Ala Phe Cys Thr Cys
225          230          235          240
Gly Ser His Leu Thr Val Val Phe Leu Tyr Tyr Gly Thr Thr Met Gly
245          250          255
Met Tyr Phe Arg Pro Leu Thr Ser Tyr Ser Pro Lys Asp Ala Val Ile
260          265          270
Thr Val Met Tyr Val Ala Val Thr Pro Ala Leu Asn Pro Phe Ile Tyr
275          280          285
Ser Leu Arg Asn Trp Asp Met Lys Ala Ala Leu Gln Lys Leu Phe Ser
290          295          300
Lys Arg Ile Ser Ser
305

```

&lt;210&gt; 2438

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Unknown (p179-dir-0-8 conceptual translation of range 2-643)

&lt;400&gt;2438

```

Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys Met Leu Ala
1      5      10
Asn His Leu Leu Gly Ser Lys Ala Ile Ser Phe Gly Gly Cys Met Ala
20     25     30
Gln Met Tyr Phe Met Ile Ser Leu Gly Asn Thr Asp Ser Tyr Ile Leu
35     40     45
Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Arg Pro Leu His
50     55     60
Tyr Ala Thr Ile Met Ser Pro Gln Leu Cys Val Leu Leu Val Ala Gly
65     70     75     80
Ser Trp Val Ile Ala Asn Ala Asn Ala Leu Pro His Thr Leu Leu Thr
85     90     95
Ala Arg Leu Ser Phe Cys Gly Asn Lys Asp Val Ala Asn Phe Tyr Cys
100    105    110
Asp Ile Thr Pro Leu Leu Gln Leu Ser Cys Ser Asp Ile Arg Phe Asn
115    120    125
Val Lys Met Met Tyr Leu Gly Val Gly Val Phe Ser Val Pro Leu Leu
130    135    140
Cys Ile Ile Ile Ser Tyr Val Arg Val Phe Ser Thr Val Leu Arg Val
145    150    155    160
Pro Ser Thr Lys Gly Phe Leu Lys Ala Leu Ser Thr Cys Gly Ser His
165    170    175
Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Gly Met Tyr Phe
180    185    190
Arg Pro Leu Thr Ser Tyr Ser Leu Lys His Ala Leu Ile Thr Val Met
195    200    205
Tyr Thr Ala Val Thr Pro
210

```

&lt;210&gt; 2439

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Unknown (p191-dir-0-8 conceptual translation of range 2-643)

&lt;400&gt;2439

```

Leu Val Asp Ile Phe Phe Ser Ser Val Thr Ile Pro Lys Met Leu Ala
1      5      10
Asn His Leu Leu Gly Ser Lys Ala Ile Ser Phe Gly Gly Cys Met Ala
20     25     30
Gln Met Tyr Phe Met Ile Gly Leu Ala Asn Thr Asp Ser Tyr Ile Leu
35     40     45
Ala Ala Met Ala Tyr Asp Arg Ala Val Ala Ile Ser Arg Pro Leu His
50     55     60
Tyr Ala Thr Ile Met Ser Pro Gln Leu Cys Val Leu Leu Val Ala Gly
65     70     75     80
Ser Trp Val Ile Ala Asn Ala Asn Ala Leu Pro His Thr Leu Leu Thr
85     90     95
Ala Arg Leu Ser Phe Cys Gly Asn Lys Asp Val Ala Asn Phe Tyr Cys
100    105    110
Asp Ile Thr Pro Leu Leu Gln Leu Ser Cys Ser Asp Ile Arg Phe Asn
115    120    125
Val Lys Met Met Tyr Leu Gly Val Gly Val Phe Ser Val Pro Leu Leu
130    135    140
Cys Ile Ile Ile Ser Tyr Val Arg Val Phe Ser Thr Val Leu Arg Val
145    150    155    160
Pro Ser Thr Lys Gly Phe Leu Lys Ala Leu Ser Thr Cys Gly Ser His
165    170    175
Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Gly Met Tyr Phe
180    185    190
Arg Pro Leu Thr Ser Tyr Ser Leu Lys His Ala Leu Ile Thr Val Met
195    200    205

```

Tyr Thr Ala Val Thr Pro  
210

<210> 2440

<211> 222

<212> PRT

<213> Unknown (3983387-dir-0-8 conceptual translation of range 1-666)

<400>2440

Ala	Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Thr	Thr	Asn	Leu	Ile	Pro
1				5					10					15	
Arg	Leu	Leu	Ala	Gly	His	Val	Ala	Gly	Thr	Arg	Thr	Ile	Ser	Tyr	Val
			20					25					30		
His	Cys	Leu	Thr	Gln	Thr	Tyr	Phe	Leu	Ile	Ser	Phe	Ala	Asn	Val	Asp
		35					40					45			
Thr	Phe	Leu	Leu	Ala	Ala	Met	Ala	Leu	Asp	Arg	Phe	Val	Ala	Ile	Cys
		50				55					60				
Tyr	Pro	Leu	Gln	Tyr	His	Thr	Ile	Ile	Thr	Pro	Gln	Leu	Cys	Val	Gly
65					70				75					80	
Leu	Ala	Ala	Val	Val	Trp	Met	Cys	Ser	Ala	Leu	Ile	Ser	Leu	Met	His
			85						90					95	
Thr	Leu	Leu	Met	Ser	Arg	Leu	Ser	Phe	Cys	Ser	Ser	Ile	Pro	Glu	Ile
			100					105					110		
Ser	His	Phe	Tyr	Cys	Asp	Ala	Tyr	Leu	Leu	Met	Lys	Leu	Ala	Cys	Ser
		115					120					125			
Asp	Thr	Arg	Val	Asn	Gln	Leu	Val	Phe	Leu	Gly	Ala	Val	Val	Leu	Phe
		130				135					140				
Val	Ala	Pro	Cys	Ile	Leu	Ile	Val	Val	Ser	Tyr	Val	Arg	Ile	Thr	Met
145					150					155					160
Val	Val	Leu	Gln	Ile	Pro	Ser	Ala	Lys	Gly	Arg	His	Lys	Thr	Phe	Ser
			165						170					175	
Thr	Cys	Ser	Ser	His	Leu	Ser	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Val
			180					185					190		
Leu	Gly	Ile	Tyr	Ile	Arg	Pro	Pro	Asp	Ser	Phe	Ser	Thr	Gln	Asp	Thr
		195				200						205			
Val	Ala	Thr	Ile	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn		
		210				215						220			

<210> 2441

<211> 314

<212> PRT

<213> Unknown (205837-dir-0-11 conceptual translation of range 1-942)

<400>2441

Met	Thr	Arg	Arg	Asn	Gln	Thr	Ala	Ile	Ser	Gln	Phe	Phe	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Phe	Pro	Pro	Glu	Tyr	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	Leu	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
		50				55					60				
Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Ala	Gln	Ile	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Leu	Gly	Asn
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
			115				120					125			
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Val	Ser	Leu



130	135	140
Val Val Leu Ser Trp	Val Leu Thr Thr Phe His Ala Met Leu His Thr	
145	150	155
Leu Leu Met Ala Arg	Leu Ser Phe Cys Glu Asp Ser Val Ile Pro His	160
	165	170
Tyr Phe Cys Asp Met Ser Thr	Leu Leu Lys Val Ala Cys Ser Asp Thr	175
	180	185
His Asp Asn Glu Leu Ala Ile Phe Ile Leu Gly Gly Pro Ile Val Val		190
	195	200
Leu Pro Phe Leu Leu Ile Ile Val Ser Tyr Ala Arg Ile Val Ser Ser		205
210	215	220
Ile Phe Lys Val Pro Ser Gln Ser Ile His Lys Ala Phe Ser Thr		225
225	230	235
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile		240
	245	250
Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu Thr		255
	260	265
Val Met Ser Leu Met Tyr Thr Met Val Thr Pro Met Leu Asn Pro Phe		270
	275	280
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Asp Ala Leu Glu Lys Ile		285
290	295	300
Met Cys Lys Lys Gln Ile Pro Ser Phe Leu		
305	310	

&lt;210&gt; 2442

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Unknown (3769630-dir-0-8 conceptual translation of range 1-663)

&lt;400&gt;2442

Leu Asn Leu Ser Phe Ala Asp Leu Cys Phe Ser Ser Val Thr Met Pro	
1	5
Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala	10
	20
Gly Cys Leu Ala Gln Ile Tyr Phe Phe Leu Phe Phe Gly Asp Leu Gly	25
	30
Asn Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys	35
	40
50	55
Phe Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser	60
65	70
Leu Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His	75
	80
	85
Thr Leu Leu Met Ala Arg Leu Ser Phe Arg Glu Asp Ser Val Ile Pro	90
	95
	100
His Tyr Phe Cys Asp Met Ser Thr Leu Leu Lys Val Ala Cys Pro Asp	105
	110
	115
Thr His Asp Asn Glu Leu Ala Ile Phe Ile Leu Gly Gly Pro Ile Val	120
	125
	130
Val Leu Pro Phe Leu Leu Ile Ile Val Ser Tyr Ala Arg Ile Val Ser	135
145	150
Ser Ile Phe Lys Val Pro Ser Ser Gln Ser Ile His Lys Ala Phe Ser	155
	160
	165
Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Ile Tyr Gly Thr Val	170
	175
	180
Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu	185
	190
	195
Thr Val Met Ser Leu Met Tyr Thr Met Val Thr Pro Met	200
	205
	210
	215
	220

&lt;210&gt; 2443

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (1504111-dir-0-11 conceptual translation of range 1-942)

&lt;400&gt;2443

```

Met Thr Glu Arg Asn Gln Thr Val Ile Ser Gln Phe Leu Leu Leu Gly
 1          5          10          15
Leu Pro Ile Pro Glu His Gln His Val Phe Tyr Ala Leu Phe Leu
          20          25          30
Ser Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Leu
          35          40          45
Ile Leu Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys
65          70          75          80
Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala Gly
          85          90          95
Cys Leu Ser Gln Ile Tyr Phe Phe Leu Phe Phe Gly Asp Leu Gly Asn
          100          105          110
Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
          115          120          125
Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser Leu
          130          135          140
Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr
145          150          155          160
Leu Leu Met Ala Arg Leu Ser Phe Cys Glu Asp Asn Val Ile Pro His
          165          170          175
Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr
          180          185          190
Arg Val Asn Glu Val Val Ile Phe Ile Val Val Ser Leu Phe Leu Val
          195          200          205
Leu Pro Phe Ala Leu Ile Ile Met Ser Tyr Val Arg Ile Val Ser Ser
          210          215          220
Ile Leu Lys Val Pro Ser Ser Gln Gly Ile Tyr Lys Ala Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile
          245          250          255
Gly Leu Tyr Leu Cys Pro Ser Ser Asn Asn Ser Thr Val Lys Glu Thr
          260          265          270
Val Met Ser Leu Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Ala Met Glu Arg Ile
          290          295          300
Phe Cys Lys Arg Lys Ile Gln Leu Asn Leu
305          310

```

&lt;210&gt; 2444

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Unknown (3769633-dir-0-8 conceptual translation of range 1-663)

&lt;400&gt;2444

```

Ser Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro
 1          5          10          15
Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala
          20          25          30
Gly Cys Leu Ser Gln Ile Tyr Phe Phe Leu Phe Phe Gly Asp Leu Gly
          35          40          45
Asn Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
          50          55          60
Phe Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser
65          70          75          80

```

Leu Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His  
                     85                    90                    95  
 Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Glu Asp Asn Val Ile Pro  
                     100                    105                    110  
 His Phe Phe Cys Asp Thr Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp  
                     115                    120                    125  
 Thr Arg Val Asn Glu Val Val Ile Phe Ile Val Val Ser Leu Phe Leu  
                     130                    135                    140  
 Val Leu Pro Phe Ala Leu Ile Ile Met Ser Tyr Val Arg Ile Val Ser  
 145                    150                    155                    160  
 Ser Ile Leu Lys Val Pro Ser Ser Gln Gly Ile Tyr Glu Ala Phe Ser  
                     165                    170                    175  
 Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val  
                     180                    185                    190  
 Ile Gly Leu Tyr Leu Cys Pro Ser Ser Asn Asn Ser Thr Val Lys Glu  
                     195                    200                    205  
 Thr Val Met Ser Leu Met Tyr Thr Val Val Thr Pro Met  
                     210                    215                    220

&lt;210&gt; 2445

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Unknown (3769632-dir-0-8 conceptual translation of range 1-663)

&lt;400&gt;2445

Gly Asn Met Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro  
 1                    5                    10                    15  
 Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Val  
                     20                    25                    30  
 Gly Cys Leu Ser Gln Ile Tyr Phe Phe Leu Phe Phe Gly Asp Leu Gly  
                     35                    40                    45  
 Asn Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Thr Cys  
                     50                    55                    60  
 Phe Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser  
 65                    70                    75                    80  
 Leu Val Val Leu Ser Trp Val Arg Thr Thr Phe His Ala Met Leu His  
                     85                    90                    95  
 Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Glu Asp Asn Val Ile Pro  
                     100                    105                    110  
 His Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp  
                     115                    120                    125  
 Thr Arg Val Asn Glu Val Val Ile Phe Ile Val Val Ser Leu Phe Leu  
                     130                    135                    140  
 Val Leu Pro Phe Ala Leu Ile Ile Met Ser Tyr Val Arg Ile Val Ser  
 145                    150                    155                    160  
 Ser Ile Leu Lys Val Pro Ser Ser Gln Gly Ile Tyr Lys Ala Phe Ser  
                     165                    170                    175  
 Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val  
                     180                    185                    190  
 Ile Gly Leu Tyr Leu Cys Pro Ser Ser Asn Asn Ser Thr Val Lys Glu  
                     195                    200                    205  
 Thr Val Met Ser Leu Met Tyr Thr Ala Val Thr Pro Met  
                     210                    215                    220

&lt;210&gt; 2446

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Unknown (902347-dir-0-6 conceptual translation of range 2-472)

&lt;400&gt;2446

Ile Cys Phe Pro Leu His Tyr Met Ser Ile Met Ser Pro Ser Leu Cys

```

      1           5           10           15
Val Ser Leu Val Leu Leu Ser Trp Val Leu Thr Thr Phe His Ala Met
      20           25           30
Leu His Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Glu Asp Asn Val
      35           40           45
Ile Pro His Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ser Cys
      50           55           60
Ser Asp Thr His Val Asn Glu Leu Val Ile Phe Val Thr Gly Gly Leu
      65           70           75           80
Ile His Val Ile Pro Leu Val Leu Ile Leu Val Ser Tyr Ala Gln Ile
      85           90           95
Val Ser Ser Ile Leu Lys Val Pro Ser Ala Arg Gly Ile Arg Lys Ala
      100          105          110
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly
      115          120          125
Thr Ile Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asp Asn Ser Thr Val
      130          135          140
Lys Glu Thr Val Met Ala Met Met Tyr Thr Val Val Thr
      145          150          155

```

&lt;210&gt; 2447

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Unknown (902682-dir-0-6 conceptual translation of range 2-472)

&lt;400&gt;2447

```

Ile Cys Phe Pro Leu His Tyr Met Ser Ile Met Ser Pro Ser Leu Cys
      1           5           10           15
Val Ser Leu Val Leu Leu Ser Trp Val Leu Thr Thr Phe His Ala Met
      20           25           30
Leu His Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Glu Asp Asn Val
      35           40           45
Ile Pro His Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ser Cys
      50           55           60
Ser Asp Thr His Val Asn Glu Leu Val Ile Phe Val Thr Gly Gly Leu
      65           70           75           80
Ile Leu Val Ile Pro Phe Val Leu Ile Leu Val Ser Tyr Ala Gln Ile
      85           90           95
Val Ser Ser Ile Leu Lys Val Pro Ser Ala Arg Gly Ile Arg Lys Ala
      100          105          110
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly
      115          120          125
Thr Ile Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asp Asn Ser Thr Val
      130          135          140
Lys Glu Thr Val Met Ala Met Met Tyr Thr Val Val Thr
      145          150          155

```

&lt;210&gt; 2448

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Unknown (3769627-dir-0-8 conceptual translation of range 1-663)

&lt;400&gt;2448

```

Gly Asn Ile Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro
      1           5           10           15
Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala
      20           25           30
Gly Cys Leu Thr Gln Leu Tyr Phe Tyr Leu Tyr Phe Ala Asp Leu Glu
      35           40           45
Ser Phe Leu Leu Glu Ala Met Ala Tyr Asp Arg Tyr Val Ala Thr Cys
      50           55           60

```

```

Phe Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser
65          70          75          80
Leu Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His
          85          90          95
Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro
          100          105          110
His Phe Phe Cys Asp Ile Ser Pro Leu Leu Lys Leu Ser Cys Ser Asp
          115          120          125
Thr His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Leu Val Ile
          130          135          140
Val Ile Pro Phe Val Leu Ile Ile Val Ser Tyr Ala Arg Val Val Ala
145          150          155          160
Ser Ile Leu Lys Val Pro Ser Val Arg Gly Ile His Lys Ile Phe Ser
          165          170          175
Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile
          180          185          190
Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu
          195          200          205
Thr Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met
          210          215          220

```

&lt;210&gt; 2449

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Unknown (3769629-dir-0-8 conceptual translation of range 1-663)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(221)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2449

```

Ser Asn Ile Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro
1          5          10          15
Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala
          20          25          30
Gly Cys Leu Thr Gln Leu Tyr Phe Tyr Leu Tyr Phe Ala Asp Leu Glu
          35          40          45
Ser Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Val Cys
          50          55          60
Phe Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser
65          70          75          80
Leu Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His
          85          90          95
Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro
          100          105          110
His Phe Phe Cys Asp Ile Ser Pro Leu Leu Lys Leu Ser Cys Ser Asp
          115          120          125
Arg His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Leu Val Ile
          130          135          140
Val Ile Pro Phe Val Leu Ile Ile Val Ser Xaa Ala Arg Val Val Ala
145          150          155          160
Ser Ile Leu Lys Val Pro Ser Val Arg Gly Ile His Lys Ile Phe Ser
          165          170          175
Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile
          180          185          190
Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu
          195          200          205
Thr Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met
          210          215          220

```

&lt;210&gt; 2450

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (205845-dir-0-11 conceptual translation of range 1-942)

&lt;400&gt;2450

```

Met Thr Glu Glu Asn Gln Thr Val Ile Ser Gln Phe Leu Leu Leu Phe
 1          5          10          15
Leu Pro Ile Pro Ser Glu His Gln His Val Phe Tyr Ala Leu Phe Leu
          20          25          30
Ser Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Leu
          35          40          45
Ile His Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys
65          70          75          80
Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Phe Ala Gly
          85          90          95
Cys Leu Thr Gln Leu Tyr Phe Tyr Leu Tyr Phe Ala Asp Leu Glu Ser
          100          105          110
Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
          115          120          125
Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser Leu
          130          135          140
Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr
145          150          155          160
Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro His
          165          170          175
Phe Phe Cys Asp Ile Ser Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr
          180          185          190
His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Leu Val Ile Val
          195          200          205
Ile Pro Phe Val Leu Ile Ile Val Ser Tyr Ala Arg Val Val Ala Ser
          210          215          220
Ile Leu Lys Val Pro Ser Val Arg Gly Ile His Lys Ile Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile
          245          250          255
Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu Thr
          260          265          270
Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Ile Arg Val
          290          295          300
Leu Cys Lys Lys Lys Ile Thr Phe Cys Leu
305          310

```

&lt;210&gt; 2451

&lt;211&gt; 192

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921663-dir-1-7 conceptual translation of range 101-676)

&lt;400&gt;2451

```

Met Tyr Phe Phe Leu Tyr Phe Thr Asp Leu Glu Ser Phe Leu Leu Val
 1          5          10          15
Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Met His Tyr
          20          25          30
Thr Ala Ile Cys Phe Leu Leu His Tyr Thr Ala Ile Met Ser Pro Met
          35          40          45
Leu Cys Leu Ser Val Val Ala Leu Ser Trp Val Leu Thr Thr Phe His
          50          55          60

```

Ala Met Leu His Thr Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp  
 65 70 75 80  
 Asn Val Ile Pro His Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu  
 85 90 95  
 Ala Cys Ser Asp Thr Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly  
 100 105 110  
 Gly Leu Ile Leu Val Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala  
 115 120 125  
 Arg Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser Lys Gly Ile Cys  
 130 135 140  
 Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe  
 145 150 155 160  
 Tyr Gly Thr Val Ile Gly Leu Tyr Leu Cys Ser Ser Ala Asn Ser Ser  
 165 170 175  
 Thr Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr Val Val Thr Pro  
 180 185 190

&lt;210&gt; 2452

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Unknown (p25-dir-0-11 conceptual translation of range 1-969)

&lt;400&gt;2452

Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Thr Pro Val Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp  
 85 90 95  
 Cys Leu Thr Gln Met Tyr Phe Phe Leu Tyr Phe Ser Asp Leu Glu Ser  
 100 105 110  
 Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Met His Tyr Thr Ala Ile Cys Phe Leu Leu His Tyr Thr Ala Ile  
 130 135 140  
 Met Ser Pro Met Leu Cys Leu Ser Val Val Ala Leu Ser Trp Val Leu  
 145 150 155 160  
 Thr Thr Phe His Ala Met Leu His Thr Leu Leu Met Ala Arg Leu Cys  
 165 170 175  
 Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys Asp Met Ser Ala  
 180 185 190  
 Leu Leu Lys Leu Ala Cys Ser Asp Thr Arg Val Asn Glu Trp Val Ile  
 195 200 205  
 Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe Leu Leu Ile Leu  
 210 215 220  
 Gly Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser  
 225 230 235 240  
 Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val  
 245 250 255  
 Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr Leu Cys Pro Ser  
 260 265 270  
 Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr  
 275 280 285  
 Val Val Thr Pro Met Leu Thr Pro Phe Ile Tyr Ser Leu Arg Asn Arg  
 290 295 300

Asp Met Lys Gly Ala Leu Glu Arg Val Ile Cys Lys Arg Lys Asn Pro  
 305 310 315 320  
 Phe Leu Leu

<210> 2453

<211> 314

<212> PRT

<213> Unknown (p181-dir-0-11 conceptual translation of range 1-942)

<400>2453

Met Met Glu Gln Asn Gln Thr Ser Thr Ser Asp Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Thr Pro Val Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Ser Gln Asn Pro Ser Ile Pro Tyr Ala Asp  
 85 90 95  
 Cys Leu Thr Gln Met Tyr Phe Phe Leu Tyr Phe Ser Asp Leu Glu Ser  
 100 105 110  
 Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu His Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ser Val  
 130 135 140  
 Val Ala Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr  
 145 150 155 160  
 Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Val Val  
 195 200 205  
 Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala Arg Ile Val Ser Ser  
 210 215 220  
 Ile Leu Lys Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Leu Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile  
 245 250 255  
 Gly Leu Tyr Leu Cys Pro Ser Ala Asn Ser Ser Thr Leu Lys Asp Thr  
 260 265 270  
 Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Glu Arg Val  
 290 295 300  
 Ile Cys Lys Arg Lys Asn Pro Phe Leu Ile  
 305 310

<210> 2454

<211> 149

<212> PRT

<213> Unknown (p166-dir-0-6 conceptual translation of range 2-448)

<400>2454

Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln  
 1 5 10 15  
 Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Val Asp Cys Leu Thr



		20					25			30				
Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Leu	Glu	Ser	Phe	Leu
		35					40					45		
Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu
		50				55					60			
Tyr	Thr	Ala	Ile	Met	Ser	Pro	Met	Leu	Cys	Leu	Ala	Leu	Val	Ala
65					70				75					80
Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His	Thr	Leu	Leu
				85				90					95	
Ala	Arg	Leu	Cys	Phe	Cys	Ala	Asp	Asn	Val	Val	Pro	His	Phe	Phe
			100					105					110	
Asp	Met	Pro	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Arg	Val
		115					120					125		
Glu	Ser	Gly	Ile	Phe	Ile	Thr	Gly	Gly	Leu	Ile	Leu	Gly	Ile	Pro
		130				135					140			
Leu	Leu	Ile	Leu	Gly										
145														

&lt;210&gt; 2455

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (p17-dir-0-11 conceptual translation of range 1-942)

&lt;400&gt;2455

Met	Met	Gly	Gln	Asn	Gln	Thr	Ser	Ile	Ser	Asp	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Gln	Pro	Glu	Gln	Gln	Asn	Leu	Cys	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Leu
		35				40						45			
Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
		50				55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Ile	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Asn	Gln	Asp	Pro	Ser	Ile	Pro	Tyr	Ala	Asp
			85					90						95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Phe	Leu	Leu	Phe	Gly	Asp	Leu	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
			115				120					125			
Pro	Leu	His	Tyr	Thr	Ala	Ile	Met	Ser	Pro	Met	Leu	Cys	Leu	Ala	Leu
		130				135					140				
Val	Ala	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His	Thr
145				150						155					160
Leu	Leu	Met	Ala	Arg	Leu	Cys	Phe	Cys	Ala	Asp	Asn	Val	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Phe	Ser	Asp	Thr
			180					185					190		
Arg	Val	Asn	Glu	Trp	Val	Ile	Phe	Ile	Met	Gly	Gly	Leu	Ile	Leu	Val
		195				200						205			
Ile	Pro	Phe	Leu	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ser
		210				215					220				
Ile	Leu	Lys	Val	Pro	Ser	Ser	Lys	Gly	Ile	Cys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val	Ile
			245						250					255	
Gly	Leu	Tyr	Leu	Cys	Ser	Ser	Ala	Asn	Ser	Ser	Thr	Leu	Lys	Asp	Thr
			260				265						270		
Val	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gly	Ala	Leu	Ser	Arg	Val

290  
Ile His Gln Lys Lys Thr Phe Phe Ser Leu  
305 310

300

&lt;210&gt; 2456

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (p90-dir-0-11 conceptual translation of range 1-942)

&lt;400&gt;2456

Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly  
1 5 10 15  
Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu  
20 25 30  
Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Val Leu  
35 40 45  
Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
50 55 60  
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys  
65 70 75 80  
Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp  
85 90 95  
Cys Leu Thr Gln Met His Phe Phe Leu Phe Gly Asp Leu Glu Ser  
100 105 110  
Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
115 120 125  
Pro Leu His Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ser Val  
130 135 140  
Val Ala Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr  
145 150 155 160  
Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His  
165 170 175  
Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr  
180 185 190  
Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Val Val  
195 200 205  
Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala Arg Ile Val Ser Ser  
210 215 220  
Ile Leu Lys Val Pro Ser Phe Lys Gly Ile Cys Lys Ala Leu Ser Thr  
225 230 235 240  
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile  
245 250 255  
Gly Leu Tyr Leu Cys Pro Ser Ala Asn Ser Ser Thr Leu Lys Asp Thr  
260 265 270  
Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
275 280 285  
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Glu Arg Val  
290 295 300  
Ile Cys Lys Arg Lys Asn Pro Phe Leu Leu  
305 310

&lt;210&gt; 2457

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (p175-dir-0-11 conceptual translation of range 1-942)

&lt;400&gt;2457

Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly  
1 5 10 15  
Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu  
20 25 30

Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp  
 85 90 95  
 Cys Leu Thr Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser  
 100 105 110  
 Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu His Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ser Val  
 130 135 140  
 Val Ala Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr  
 145 150 155 160  
 Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val  
 195 200 205  
 Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala Arg Ile Val Ser Ser  
 210 215 220  
 Ile Leu Lys Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Leu Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile  
 245 250 255  
 Gly Leu Tyr Leu Cys Pro Ser Ala Asn Ser Ser Thr Leu Lys Asp Thr  
 260 265 270  
 Val Met Ala Met Ile Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Ser Arg Val  
 290 295 300  
 Ile His Gln Lys Lys Thr Phe Phe Ser Leu  
 305 310

&lt;210&gt; 2458

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (p170-dir-0-11 conceptual translation of range 1-942)

&lt;400&gt;2458

Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp  
 85 90 95  
 Cys Leu Thr Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser  
 100 105 110  
 Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu His Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ser Leu  
 130 135 140

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Val Ala Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr
145          150          155          160
Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His
          165          170          175
Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr
          180          185          190
Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Val Val
          195          200          205
Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala Arg Ile Val Ser Ser
          210          215          220
Ile Leu Lys Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile
          245          250          255
Gly Leu Tyr Leu Cys Pro Ser Ala Asn Ser Ser Thr Leu Lys Glu Thr
          260          265          270
Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Glu Arg Val
          290          295          300
Ile Cys Lys Arg Lys Asn Pro Phe Leu Leu
305          310

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&lt;210&gt; 2459

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (p31-dir-0-11 conceptual translation of range 1-942)

&lt;400&gt;2459

```

Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly
1          5          10          15
Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu
          20          25          30
Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu
          35          40          45
Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys
65          70          75          80
Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp
          85          90          95
Cys Leu Thr Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser
          100          105          110
Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
          115          120          125
Ala Leu His Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ser Leu
          130          135          140
Val Ala Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr
145          150          155          160
Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His
          165          170          175
Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr
          180          185          190
Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Val Val
          195          200          205
Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala Arg Ile Val Ser Ser
          210          215          220
Ile Leu Lys Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile
          245          250          255

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Gly Leu Tyr Leu Cys Pro Ser Ala Asn Ser Ser Thr Leu Lys Glu Thr  
 260 265 270  
 Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Gly Asp Met Lys Gly Ala Leu Ser Arg Val  
 290 295 300  
 Ile His Gln Lys Lys Thr Phe Phe Ser Leu  
 305 310

&lt;210&gt; 2460

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Unknown (890-dir-5-12 conceptual translation of range 642-1613)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(324)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2460

Arg Gln Ser Met Thr Glu Lys Asn Gln Thr Val Val Ser Glu Phe Val  
 1 5 10 15  
 Leu Leu Gly Leu Pro Ile Asp Pro Asp Gln Arg Asp Leu Phe Tyr Ala  
 20 25 30  
 Leu Phe Leu Ala Met Tyr Val Thr Thr Ile Leu Gly Asn Leu Leu Ile  
 35 40 45  
 Ile Val Leu Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Leu  
 50 55 60  
 Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr  
 65 70 75 80  
 Met Pro Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro  
 85 90 95  
 Tyr Ala Gly Cys Leu Thr Gln Met Tyr Phe Phe Leu Phe Phe Gly Asp  
 100 105 110  
 Leu Glu Ser Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala  
 115 120 125  
 Ile Cys Phe Pro Leu His Tyr Thr Thr Ile Met Ser Pro Lys Leu Cys  
 130 135 140  
 Phe Ser Leu Leu Val Leu Ser Trp Val Leu Thr Met Phe His Ala Val  
 145 150 155 160  
 Leu His Thr Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asn Thr Ile  
 165 170 175  
 Pro His Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser  
 180 185 190  
 Asp Thr Gln Val Asn Glu Leu Val Ile Phe Ile Met Gly Gly Leu Ile  
 195 200 205  
 Leu Val Ile Pro Phe Leu Leu Ile Ile Thr Ser Tyr Ala Arg Ile Val  
 210 215 220  
 Ser Ser Ile Leu Lys Val Pro Ser Ala Ile Gly Ile Cys Lys Val Phe  
 225 230 235 240  
 Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr  
 245 250 255  
 Val Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys  
 260 265 270  
 Glu Thr Ile Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn  
 275 280 285  
 Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Arg  
 290 295 300  
 Arg Val Ile Cys Arg Lys Lys Ile Thr Phe Ser Val Xaa Trp Xaa His  
 305 310 315 320  
 Leu Ile Leu Leu

&lt;210&gt; 2461

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Unknown (4877306-dir-0-6 conceptual translation of range 2-487)

&lt;400&gt;2461

Val	Ala	Ile	Cys	Phe	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Pro	Arg
1				5					10					15	
Leu	Cys	Leu	Phe	Leu	Val	Leu	Leu	Pro	Trp	Ile	Leu	Thr	Thr	Phe	His
		20						25					30		
Ala	Met	Leu	His	Thr	Leu	Leu	Met	Ala	Arg	Leu	His	Phe	Cys	Glu	Asp
		35					40					45			
Asn	Val	Ile	Pro	His	Phe	Phe	Cys	Asp	Ser	Ser	Ala	Leu	Leu	Lys	Leu
	50					55					60				
Ser	Cys	Ser	Asp	Thr	Arg	Val	Asn	Glu	Leu	Val	Ile	Phe	Phe	Val	Gly
65					70					75					80
Gly	Leu	Ile	Ile	Ile	Ile	Pro	Phe	Leu	Leu	Ile	Ile	Met	Ser	Tyr	Ala
				85					90					95	
Arg	Ile	Val	Ser	Ser	Ile	Leu	Lys	Val	Pro	Ser	Ala	Lys	Gly	Ile	Cys
			100					105					110		
Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe
		115					120					125			
Tyr	Gly	Thr	Ile	Ile	Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	His	Asn	Ser
	130					135					140				
Thr	Val	Lys	Glu	Thr	Val	Met	Ser	Met	Met	Tyr	Thr	Val	Val	Ala	Pro
145					150					155					160
Met	Leu														

&lt;210&gt; 2462

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p194-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2462

Phe	Thr	Asp	Leu	Cys	Phe	Ser	Thr	Val	Thr	Met	Pro	Asn	Phe	Leu	Gln
1				5					10					15	
Asn	Met	Gln	Ser	Gln	Val	Ser	Ser	Ile	Pro	Tyr	Ala	Gly	Cys	Leu	Ala
		20						25					30		
Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Val	Glu	Ser	Leu	Leu	Leu
		35					40					45			
Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	His
	50					55					60				
Tyr	Thr	Arg	Ile	Met	Ser	Pro	Asn	Leu	Cys	Val	Ser	Met	Val	Leu	Leu
65				70						75					80
Ser	Trp	Ala	Leu	Thr	Thr	Leu	Cys	Ala	Met	Leu	His	Thr	Leu	Leu	Leu
			85						90					95	
Thr	Arg	Leu	Ser	Phe	Cys	Lys	Asn	Asn	Val	Ile	Pro	His	Phe	Phe	Cys
			100					105					110		
Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile	His	Ile	Asn
		115					120					125			
Glu	Leu	Met	Ile	Met	Ile	Ile	Gly	Ala	Leu	Val	Val	Ile	Leu	Pro	Phe
	130					135					140				
Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ala	His	Ile	Val	Ser	Ser	Ile	Leu	Lys
145					150					155					160
Val	Pro	Ser	Thr	Arg	Gly	Ile	His	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser
				165					170					175	
His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Val	Ile	Val	Leu	Tyr
			180					185					190		

Leu Cys Pro Ser Ser Asn Asn Ser Thr Val Lys Asp Thr Val Met Ser  
           195                          200                  205  
 Met Met Tyr Thr Val Val Thr Pro  
       210                          215

<210> 2463

<211> 157

<212> PRT

<213> Unknown (902674-dir-0-6 conceptual translation of range 2-472)

<400>2463

Ile Cys Phe Pro Leu His Tyr Thr Arg Ile Met Ser Pro Asn Leu Cys  
   1                  5                  10                  15  
 Val Ser Met Val Leu Leu Ser Trp Ala Leu Thr Thr Leu Cys Ala Met  
                   20                  25                  30  
 Leu Arg Thr Leu Leu Leu Thr Arg Leu Ser Phe Cys Lys Asn Asn Val  
           35                  40                  45  
 Ile Pro His Phe Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ala Cys  
   50                  55                  60  
 Ser Asp Ile His Ile Asn Glu Leu Met Ile Met Ile Ile Gly Ala Leu  
 65                  70                  75                  80  
 Val Val Ile Leu Pro Phe Leu Leu Ile Ile Val Ser Tyr Ala His Ile  
                   85                  90                  95  
 Val Ser Ser Ile Leu Lys Val Pro Ser Thr Arg Gly Ile His Lys Val  
                   100                  105                  110  
 Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly  
           115                  120                  125  
 Ser Val Ile Val Leu Tyr Leu Cys Pro Ser Ser Asn Asn Ser Thr Val  
 130                  135                  140  
 Lys Asp Thr Val Met Ser Met Met Tyr Thr Val Val Thr  
 145                  150                  155

<210> 2464

<211> 216

<212> PRT

<213> Unknown (p197-dir-0-8 conceptual translation of range 2-649)

<220>

<221> VARIANT

<222> (1)...(216)

<223> Xaa = Any Amino Acid

<400>2464

Phe Thr Asp Leu Xaa Phe Ser Ser Val Thr Met Pro Lys Leu Leu Gln  
   1                  5                  10                  15  
 Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala Gly Cys Leu Thr  
                   20                  25                  30  
 Gln Met Tyr Phe Leu Leu Phe Phe Gly Asp Leu Glu Ser Phe Leu Leu  
           35                  40                  45  
 Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His  
   50                  55                  60  
 Tyr Thr Ser Ile Met Ser Pro Arg Leu Cys Val Ser Leu Val Leu Leu  
 65                  70                  75                  80  
 Ser Trp Leu Leu Thr Met Ser His Ser Met Leu His Thr Leu Leu Leu  
                   85                  90                  95  
 Thr Arg Leu Ser Phe Cys Glu Asn Asn Val Ile Pro His Phe Phe Cys  
                   100                  105                  110  
 Asp Leu Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Ile His Ile Asn  
           115                  120                  125  
 Glu Leu Val Ile Leu Ile Ile Gly Gly Leu Val Val Ile Leu Pro Phe  
 130                  135                  140

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Leu Leu Ile Thr Val Ser Tyr Ala Arg Ile Ile Ser Ser Ile Leu Lys
145                      150                      155                      160
Val Pro Ser Thr Gln Gly Ile His Lys Val Phe Ser Thr Cys Gly Ser
                      165                      170                      175
His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile Gly Leu Tyr
                      180                      185                      190
Leu Cys Pro Ser Ala Asn Asn Ser Thr Leu Lys Asp Thr Val Met Ser
                      195                      200                      205
Met Met Tyr Thr Val Val Thr Pro
                      210                      215

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&lt;210&gt; 2465

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p195-dir-0-8 conceptual translation of range 2-650)

&lt;400&gt;2465

```

Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys Leu Leu Leu
1      5      10      15
Asn Met Gln Ser Gln Ile Pro Ser Ile Ser Tyr Ala Ser Cys Leu Ala
20     25     30
Gln Met Tyr Phe Phe Leu Phe Phe Gly Ala Leu Glu Asn Phe Leu Leu
35     40     45
Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
50     55     60
Tyr Thr Ser Ile Met Ser Pro Arg Leu Cys Val Ser Met Val Val Met
65     70     75     80
Cys Trp Val Leu Thr Thr Phe Asp Ala Met Leu His Thr Leu Leu Met
85     90     95
Ala Arg Leu Ser Phe Cys Glu Asp Asn Val Ile Pro His Phe Phe Cys
100    105    110
Asp Met Ser Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr His Val Asn
115    120    125
Glu Val Val Ile Phe Ile Ile Gly Gly Leu Gly Val Val Leu Pro Phe
130    135    140
Leu Leu Ile Thr Val Ser Tyr Ala Arg Ile Ile Ser Ser Ile Leu Lys
145    150    155    160
Val Pro Ser Thr Gln Gly Ile Gln Lys Val Phe Ser Thr Cys Gly Ser
165    170    175
His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile Gly Leu Tyr
180    185    190
Leu Gly Pro Ser Ala Tyr Tyr Ser Thr Leu Lys Asp Thr Val Met Ser
195    200    205
Met Met Tyr Thr Val Val Thr Pro
210    215

```

&lt;210&gt; 2466

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Unknown (902672-dir-0-6 conceptual translation of range 2-472)

&lt;400&gt;2466

```

Ile Cys Phe Pro Leu His Tyr Thr Ser Ile Met Ser Pro Arg Leu Cys
1      5      10      15
Val Ser Met Val Val Met Cys Arg Val Leu Thr Thr Phe Asp Ala Met
20     25     30
Leu His Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Glu Asp Asn Val
35     40     45
Ile Pro His Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ser Cys
50     55     60
Ser Asp Thr His Val Asn Glu Val Val Ile Phe Ile Ile Gly Gly Leu

```



65					70					75				80
Gly	Val	Val	Leu	Pro	Phe	Leu	Leu	Ile	Thr	Val	Ser	Tyr	Ala	Arg Ile
				85					90					95
Ile	Ser	Ser	Ile	Leu	Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	Gln	Lys Val
			100					105					110	
Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr Gly
		115					120					125		
Thr	Ile	Ile	Gly	Leu	Tyr	Leu	Gly	Pro	Ser	Ala	Tyr	Tyr	Ser	Thr Leu
	130					135					140			
Lys	Asp	Thr	Val	Met	Ser	Met	Met	Tyr	Thr	Val	Val	Thr		
145					150					155				

&lt;210&gt; 2467

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p196-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2467

Phe	Ser	Asp	Phe	Cys	Phe	Ser	Ser	Val	Thr	Ile	Pro	Lys	Leu	Leu	Gln
1				5					10					15	
Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly	Cys	Leu	Ala
		20						25					30		
Gln	Met	Tyr	Phe	Phe	Leu	Leu	Phe	Ala	Asp	Leu	Glu	Ser	Phe	Leu	Leu
	35						40					45			
Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	His
	50				55						60				
Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Leu	Cys	Leu	Val	Ala	Leu
65				70					75					80	
Ser	Trp	Leu	Leu	Thr	Thr	Val	Ile	Ser	Leu	Ser	His	Thr	Leu	Leu	Met
			85						90					95	
Ala	Arg	Leu	Ser	Phe	Cys	Ala	Asn	Asn	Val	Ile	Pro	His	Phe	Phe	Cys
		100					105						110		
Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile	Gln	Ile	Asn
	115					120						125			
Lys	Leu	Met	Ile	Phe	Ile	Leu	Gly	Gly	Leu	Val	Ile	Ile	Val	Pro	Phe
	130					135					140				
Leu	Leu	Ile	Phe	Ser	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ser	Ile	Leu	Lys
145					150				155					160	
Val	Pro	Ser	Ser	Arg	Ser	Ile	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser
			165					170					175		
His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly	Leu	Tyr
		180						185					190		
Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Ile	Lys	Glu	Thr	Val	Met	Ala
	195					200					205				
Val	Met	Tyr	Thr	Val	Val	Thr	Pro								
210						215									

&lt;210&gt; 2468

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p91-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2468

Phe	Ser	Asp	Met	Cys	Phe	Ser	Ser	Val	Ser	Ile	Pro	Lys	Leu	Leu	Val
1				5					10					15	
Asn	Met	Gln	Ser	Lys	Lys	Pro	Ala	Ile	Pro	Tyr	Ala	Gly	Cys	Leu	Ser
		20					25						30		
Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Ala	Asp	Leu	Glu	Ser	Phe	Leu	Leu
	35					40						45			
Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	His
	50					55					60				

Tyr Ile Val Ile Met Ser Pro Lys Leu Cys Ser Ser Leu Val Val Leu  
 65 70 75 80  
 Ser Trp Val Leu Thr Ala Phe His Ala Leu Leu His Thr Leu Leu Met  
 85 90 95  
 Ser Arg Leu Ser Phe Cys Ala Asn Asn Val Ile Pro His Phe Phe Cys  
 100 105 110  
 Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr Gln Pro Asn  
 115 120 125  
 Glu Leu Val Ile Phe Val Thr Gly Gly Leu Ile Leu Val Val Pro Phe  
 130 135 140  
 Leu Leu Ile Ile Thr Ser Tyr Ala His Ile Ile Ser Ser Ile Leu Arg  
 145 150 155 160  
 Val Pro Ser Val Arg Gly Ile Arg Lys Ala Phe Ser Thr Cys Gly Ser  
 165 170 175  
 His Leu Ser Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr  
 180 185 190  
 Leu Cys Pro Ser Thr Asn Asn Ser Thr Val Lys Glu Thr Val Met Ser  
 195 200 205  
 Ile Met Tyr Thr Val Val Thr Pro  
 210 215

&lt;210&gt; 2469

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (p29-dir-0-11 conceptual translation of range 1-942)

&lt;400&gt;2469

Met Met Lys Lys Asn Gln Thr Met Ile Ser Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Gln Pro Glu Gln Arg Asn Leu Phe Tyr Ala Leu Phe Leu  
 20 25 30  
 Ala Val Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Val Ile Val Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Met Pro Met Tyr Leu Cys Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Ser Gln Asn Pro Ser Ile Pro Phe Ala Asp  
 85 90 95  
 Cys Leu Ala Gln Met Tyr Phe His Leu Phe Tyr Gly Val Leu Glu Ser  
 100 105 110  
 Phe Leu Leu Val Val Met Ala Tyr His Cys Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu His Tyr Thr Thr Ile Met Ser Pro Lys Cys Cys Leu Gly Leu  
 130 135 140  
 Leu Thr Leu Ser Trp Leu Leu Thr Thr Ala His Ala Thr Leu His Thr  
 145 150 155 160  
 Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Glu Asn Val Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Thr Ser Thr Leu Leu Lys Leu Ala Cys Ser Asn Thr  
 180 185 190  
 Gln Val Asn Gly Trp Val Met Phe Phe Met Gly Gly Leu Ile Leu Val  
 195 200 205  
 Ile Pro Phe Leu Leu Leu Ile Met Ser Cys Ala Arg Ile Val Ser Thr  
 210 215 220  
 Ile Leu Arg Val Pro Ser Thr Gly Gly Ile Gln Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Pro His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile  
 245 250 255  
 Gly Leu Tyr Leu Cys Pro Leu Thr Asn His Asn Thr Val Lys Asp Thr  
 260 265 270

Val Met Ala Val Met Tyr Thr Gly Val Thr His Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Arg Gly Thr Leu Gly Arg Val  
 290 295 300  
 Phe Ser Thr Lys Lys Ile Phe Leu Ser Leu  
 305 310

<210> 2470

<211> 314

<212> PRT

<213> Unknown (pl32-dir-0-11 conceptual translation of range 1-942)

<400>2470

Met Thr Lys Lys Asn Gln Thr Met Ile Ser Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Phe Tyr Ala Leu Phe Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Thr Pro Val Tyr Leu Cys Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Ser Gln Asn Pro Ser Ile Pro Phe Ala Asp  
 85 90 95  
 Cys Leu Ala Gln Met Tyr Phe His Leu Phe Tyr Gly Val Leu Glu Ser  
 100 105 110  
 Phe Leu Leu Val Val Met Ala Tyr His Cys Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu Gln Tyr Thr Thr Ile Met Ser Ser Lys Gly Cys Leu Ala Leu  
 130 135 140  
 Leu Thr Leu Ser Trp Leu Leu Thr Thr Ala His Ala Arg Leu His Thr  
 145 150 155 160  
 Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Val Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Thr Ser Thr Leu Leu Lys Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Gln Val Asn Gly Trp Val Met Phe Phe Thr Gly Gly Leu Ile Leu Val  
 195 200 205  
 Ile Pro Phe Leu Leu Leu Ile Met Ser Tyr Ala Arg Ile Leu Ser Thr  
 210 215 220  
 Ile Leu Arg Val Pro Cys Ala Gly Gly Ile Gln Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Pro His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile  
 245 250 255  
 Gly Leu Tyr Leu Cys Pro Ser Thr Asn His Asn Thr Val Lys Asp Thr  
 260 265 270  
 Val Met Ala Val Met Tyr Thr Gly Val Thr His Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Arg Gly Asn Pro Gly Gln Ser  
 290 295 300  
 Leu Gln His Lys Glu Asn Phe Phe Val Phe  
 305 310

<210> 2471

<211> 310

<212> PRT

<213> Unknown (205831-dir-0-11 conceptual translation of range 1-930)

<400>2471

Met Asn Asn Gln Thr Phe Ile Thr Gln Phe Leu Leu Leu Gly Leu Pro

1	5	10	15
Ile Pro Glu Glu His Gln His Leu Phe Tyr Ala Leu Phe Leu Val Met			
	20	25	30
Tyr Leu Thr Thr Ile Leu Gly Asn Leu Leu Ile Ile Val Leu Val Gln			
	35	40	45
Leu Asp Ser Gln Leu His Thr Pro Met Tyr Leu Phe Leu Ser Asn Leu			
	50	55	60
Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys Leu Leu			
	65	70	75
Gln Asn Met Arg Ser Gln Asp Thr Ser Ile Pro Tyr Gly Gly Cys Leu			
	85	90	95
Ala Gln Thr Tyr Phe Phe Met Val Phe Gly Asp Met Glu Ser Phe Leu			
	100	105	110
Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu			
	115	120	125
His Tyr Thr Ser Ile Met Ser Pro Lys Leu Cys Thr Cys Leu Val Leu			
	130	135	140
Leu Leu Trp Met Leu Thr Ser His Ala Met Met His Thr Leu Leu			
	145	150	155
Ala Ala Arg Leu Ser Phe Cys Glu Asn Asn Val Val Leu Asn Phe Phe			
	165	170	175
Cys Asp Leu Phe Val Leu Leu Lys Leu Ala Cys Ser Asp Thr Tyr Ile			
	180	185	190
Asn Glu Leu Met Ile Phe Ile Met Ser Thr Leu Leu Ile Ile Ile Pro			
	195	200	205
Phe Phe Leu Ile Val Met Ser Tyr Ala Arg Ile Ile Ser Ser Ile Leu			
	210	215	220
Lys Val Pro Ser Thr Gln Gly Ile Cys Lys Val Phe Ser Thr Cys Gly			
	225	230	235
Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile Gly Leu			
	245	250	255
Tyr Leu Cys Pro Ala Gly Asn Asn Ser Thr Val Lys Glu Met Val Met			
	260	265	270
Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr			
	275	280	285
Ser Leu Arg Asn Arg Asp Met Lys Arg Ala Leu Ile Arg Val Ile Cys			
	290	295	300
Ser Met Lys Ile Thr Leu			
305	310		

&lt;210&gt; 2472

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Unknown (3769635-dir-0-8 conceptual translation of range 1-663)

&lt;400&gt;2472

Gly Asn Met Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Leu			
1	5	10	15
Lys Leu Leu Gln Asn Ile Gln Ser Gln Val Pro Ser Ile Ser Tyr Ala			
	20	25	30
Gly Cys Leu Thr Gln Ile Phe Phe Leu Leu Phe Gly Tyr Leu Gly			
	35	40	45
Asn Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys			
	50	55	60
Phe Pro Leu His Tyr Thr Asn Ile Met Ser His Lys Leu Cys Thr Cys			
	65	70	75
Leu Leu Leu Val Phe Trp Ile Met Thr Ser Ser His Ala Met Val His			
	85	90	95
Thr Leu Leu Ala Ala Arg Leu Ser Phe Cys Glu Asn Asn Val Leu Leu			
	100	105	110
Asn Phe Phe Cys Asp Leu Phe Val Leu Leu Lys Leu Ala Cys Ser Asp			

		115					120					125										
Thr	Tyr	Val	Asn	Glu	Leu	Met	Ile	His	Ile	Met	Gly	Val	Ile	Ile	Ile							
		130					135					140										
Val	Ile	Pro	Phe	Val	Leu	Ile	Val	Ile	Ser	Tyr	Ala	Lys	Ile	Ile	Ser							
145					150					155							160					
Ser	Ile	Leu	Lys	Val	Pro	Ser	Thr	Gln	Ser	Ile	His	Lys	Val	Phe	Ser							
				165					170							175						
Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile							
			180					185					190									
Ile	Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Gly	Asp	Asn	Phe	Ser	Leu	Lys	Gly							
		195					200					205										
Ser	Ala	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met										
	210					215					220											

<210> 2473

**<211> 221**

<212> PRT

<213> Unknown (3769637-dir-0-8 conceptual translation of range 1-663)

<400>2473

Gly	Asn	Met	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro
1				5					10					15	
Lys	Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Ser	Tyr	Ala
			20					25					30		
Gly	Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Phe	Met	Val	Phe	Ala	Asp	Met	Glu
		35					40					45			
Ser	Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	50					55					60				
Phe	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Thr	Lys	Val	Cys	Ala	Ser
65					70					75					80
Leu	Leu	Ile	Leu	Leu	Trp	Met	Leu	Thr	Thr	Ser	His	Ala	Leu	Leu	His
				85					90					95	
Thr	Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Lys	Asn	Val	Ile	Leu
			100					105					110		
His	Phe	Phe	Cys	Asp	Ile	Thr	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp
		115					120					125			
Thr	Tyr	Val	Asn	Glu	Met	Met	Met	His	Ile	Leu	Gly	Gly	Leu	Ile	Ser
		130				135					140				
Val	Ile	Pro	Phe	Leu	Phe	Ile	Val	Met	Ser	Tyr	Val	Arg	Ile	Phe	Phe
145					150					155					160
Ser	Ile	Leu	Lys	Phe	Pro	Ser	Ile	Gln	Asp	Ile	His	Lys	Val	Phe	Ser
				165					170					175	
Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Ile
			180					185					190		
Phe	Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Gly	Asn	Asn	Ser	Thr	Val	Lys	Glu
		195					200					205			
Ile	Ala	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met			
	210					215					220				

<210> 2474

**<211> 221**

<212> PRT

<213> Unknown (3769639-dir-0-8 conceptual translation of range 1-663)

<220>

## <221> VARIANT

$\langle 222 \rangle \quad (1) \dots (221)$

<223> Xaa = Any Amino Acid

<400>2474

Gly Asn Phe Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro

1		5		10		15									
Lys	Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Ser	Tyr	Ala
		20						25					30		
Gly	Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Phe	Met	Val	Phe	Ala	Asp	Met	Glu
	35						40					45			
Ser	Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	50					55					60				
Phe	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Thr	Lys	Val	Cys	Ala	Ser
65				70						75					80
Leu	Leu	Ile	Leu	Leu	Xaa	Met	Leu	Thr	Thr	Ser	His	Ala	Pro	Leu	His
			85						90					95	
Thr	Leu	Leu	Met	Ala	Arg	Leu	Pro	Phe	Tyr	Glu	Lys	Asn	Val	Ile	Leu
			100					105					110		
His	Phe	Phe	Cys	Asp	Val	Thr	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp
	115						120					125			
Thr	Tyr	Val	Asn	Glu	Met	Met	Met	Tyr	Ile	Leu	Gly	Gly	Leu	Ile	Ser
	130					135					140				
Val	Ile	Pro	Phe	Leu	Phe	Ile	Val	Met	Ser	Tyr	Val	Arg	Ile	Phe	Phe
145				150						155					160
Ser	Ile	Leu	Lys	Phe	Pro	Ser	Ile	Gln	Asp	Ile	His	Lys	Val	Phe	Ser
			165					170						175	
Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Ile
		180					185						190		
Phe	Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Gly	Asn	Asn	Ser	Thr	Val	Lys	Glu
	195					200						205			
Ile	Ala	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met			
	210					215					220				

&lt;210&gt; 2475

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (205843-dir-0-11 conceptual translation of range 1-936)

&lt;400&gt;2475

Met	Thr	Gly	Asn	Asn	Gln	Thr	Leu	Ile	Leu	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Ser	Glu	Tyr	His	Leu	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Ile	Ile	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Leu
	35						40					45			
Val	Arg	Leu	Asp	Ser	His	Leu	His	Met	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50				55					60					
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65				70					75						80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Ser	Tyr	Thr	Gly
			85					90						95	
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Phe	Met	Val	Phe	Gly	Asp	Met	Glu	Ser
		100					105					110			
Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
	115					120						125			
Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Met	Ser	Thr	Lys	Phe	Cys	Ala	Ser	Leu
	130					135					140				
Val	Leu	Leu	Leu	Trp	Met	Leu	Thr	Met	Thr	His	Ala	Leu	Leu	His	Thr
145				150						155					160
Leu	Leu	Ile	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Lys	Asn	Val	Ile	Leu	His
			165					170						175	
Phe	Phe	Cys	Asp	Ile	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Ile
	180					185						190			
Tyr	Val	Asn	Glu	Leu	Met	Ile	Tyr	Ile	Leu	Gly	Gly	Leu	Ile	Ile	Ile
	195					200						205			
Ile	Pro	Phe	Leu	Leu	Ile	Val	Met	Ser	Tyr	Val	Arg	Ile	Phe	Phe	Ser

```

      210              215              220
Ile Leu Lys Phe Pro Ser Ile Gln Asp Ile Tyr Lys Val Phe Ser Thr
225              230              235              240
Cys Gly Ser His Leu Ser Val Val Thr Leu Phe Tyr Gly Thr Ile Phe
      245              250              255
Gly Ile Tyr Leu Cys Pro Ser Gly Asn Asn Ser Thr Val Lys Glu Ile
      260              265              270
Ala Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
      275              280              285
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Arg Ala Leu Ile Arg Val
      290              295              300
Ile Cys Thr Lys Lys Ile Ser Leu
305              310

```

&lt;210&gt; 2476

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p198-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2476

```

Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln
1              5              10              15
Asn Met Gln Ser Gln Val Pro Thr Ile Ser Tyr Ala Asp Cys Leu Thr
      20              25              30
Gln Leu Tyr Phe Phe Met Val Phe Gly Asp Met Glu Ser Phe Leu Leu
      35              40              45
Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
      50              55              60
Tyr Thr Ser Ile Met Ser Thr Lys Phe Cys Ala Leu Leu Val Leu Leu
65              70              75              80
Leu Trp Met Leu Thr Ile Ser His Ala Leu Leu His Thr Leu Leu Met
      85              90              95
Ala Arg Leu Ser Phe Cys Glu Lys Asn Val Ile Leu His Phe Phe Cys
      100              105              110
Asp Ile Ser Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr Tyr Val Asn
      115              120              125
Glu Leu Met Ile Phe Ile Met Gly Gly Ile Ile Ser Ile Ile Pro Phe
      130              135              140
Leu Leu Ile Val Met Ser Tyr Val Arg Ile Phe Phe Ser Ile Leu Lys
      145              150              155              160
Val Pro Ser Ser Gln Asp Ile His Lys Val Phe Ser Thr Cys Gly Ser
      165              170              175
His Leu Ser Val Val Thr Leu Phe Tyr Gly Thr Ile Ile Gly Leu Tyr
      180              185              190
Leu Cys Pro Ser Gly Asn Asn Ser Thr Val Asn Glu Ile Ser Met Ala
      195              200              205
Met Met Tyr Thr Val Val Thr Pro
      210              215

```

&lt;210&gt; 2477

&lt;211&gt; 236

&lt;212&gt; PRT

&lt;213&gt; Unknown (3810822-dir-0-8 conceptual translation of range 1-708)

&lt;400&gt;2477

```

Pro Met Tyr Leu Phe Leu Gly Asn Leu Ser Phe Ser Asp Leu Cys Phe
1              5              10              15
Ser Ser Val Thr Met Pro Lys Leu Leu Gln Asn Met Gln Ser Gln Asp
      20              25              30
Thr Ser Ile Thr Tyr Val Gly Cys Leu Thr Gln Ser Val Leu Phe Leu
      35              40              45

```

```

Ile Phe Phe Gly Gly Leu Glu Ile Phe Leu Leu Val Val Met Ala Tyr
  50                      55                      60
Asp Arg Tyr Val Ala Ile Cys Leu Pro Leu His Tyr Ser Ser Ile Met
  65                      70                      75                      80
Ser Leu Lys Phe Cys Val Cys Ala Val Leu Ile Ser Trp Ile Asn Ser
                      85                      90                      95
Pro Trp Tyr Ser Lys Leu His Thr Leu Leu Leu Ala Arg Leu Ser Phe
                      100                      105                      110
Cys Glu Asp Asn Ile Ile Cys His Phe Phe Cys Asp Met Ser Ala Leu
                      115                      120                      125
Leu Lys Leu Ala Cys Ser Asp Ile Tyr Ile Asn Glu Leu Val Ile Phe
                      130                      135                      140
Ile Leu Gly Gly Pro Leu Val Val Ile Pro Phe Leu Leu Ile Val Val
  145                      150                      155                      160
Ser Tyr Val Gln Ile Ile Phe Ser Ile Leu Lys Ala Ser Ser Thr Arg
                      165                      170                      175
Gly Ile Tyr Lys Val Phe Ser Thr Cys Gly Thr Tyr Leu Thr Val Val
                      180                      185                      190
Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr Phe Cys Pro Ser Glu
                      195                      200                      205
Lys Leu Tyr Ser Lys Glu Ala Ser Ile Thr Met Met Tyr Thr Val Val
                      210                      215                      220
Thr Pro Met His Pro Phe Ile Tyr Thr Leu Arg Asn
  225                      230                      235

```

&lt;210&gt; 2478

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (OST044-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2478

```

Leu Ala Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys Met Leu Met
  1                      5                      10                      15
Asp Met Arg Thr Lys Tyr Lys Ser Ile Leu Tyr Glu Glu Cys Ile Ser
                      20                      25                      30
Gln Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Ser Phe Leu Ile
                      35                      40                      45
Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu His
                      50                      55                      60
Tyr Thr Val Ile Met Arg Glu Glu Leu Cys Val Phe Leu Val Ala Val
                      65                      70                      75                      80
Ser Trp Ile Leu Ser Cys Ala Ser Ser Leu Ser His Thr Leu Leu Leu
                      85                      90                      95
Thr Arg Leu Ser Phe Cys Ala Ala Asn Thr Ile Pro His Val Phe Cys
                      100                      105                      110
Asp Leu Ala Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile Phe Leu Asn
                      115                      120                      125
Glu Leu Val Met Phe Thr Val Gly Val Val Val Ile Thr Leu Pro Phe
                      130                      135                      140
Met Cys Ile Leu Val Ser Tyr Gly Tyr Ile Gly Ala Thr Ile Leu Arg
                      145                      150                      155                      160
Val Pro Ser Thr Lys Gly Ile His Lys Ala Leu Ser Thr Cys Gly Ser
                      165                      170                      175
His Leu Ser Val Val Ser Leu Tyr Tyr Gly Ser Ile Phe Gly Gln Tyr
                      180                      185                      190
Leu Phe Pro Thr Val Ser Ser Ser Ile Asp Lys Asp Val Ile Val Ala
                      195                      200                      205
Leu Met Tyr Thr Val Val Thr Pro
                      210                      215

```

&lt;210&gt; 2479



&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (hg152-dir-0-8 conceptual translation of range 1-648)

&lt;400&gt;2479

```

Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys Met Leu Met
 1          5          10          15
Asp Met Arg Thr Lys Tyr Lys Ser Ile Leu Tyr Glu Glu Cys Ile Ser
      20          25          30
Gln Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Ser Phe Leu Ile
      35          40          45
Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu His
      50          55          60
Tyr Thr Val Val Met Arg Glu Glu Leu Cys Val Phe Leu Val Ala Val
      65          70          75          80
Ser Trp Ile Leu Ser Cys Asp Ser Ser Leu Ser His Thr Leu Leu Leu
      85          90          95
Thr Arg Leu Ser Phe Cys Ala Ala Asn Thr Ile Pro His Val Phe Cys
      100          105          110
Asp Leu Ala Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile Phe Leu Asn
      115          120          125
Glu Leu Val Met Phe Thr Val Gly Val Val Val Ile Thr Leu Pro Phe
      130          135          140
Met Cys Ile Leu Val Ser Tyr Gly Tyr Ile Gly Ala Thr Ile Leu Arg
      145          150          155          160
Val Pro Ser Thr Lys Gly Ile His Lys Ala Leu Ser Thr Cys Gly Ser
      165          170          175
His Leu Ser Val Val Ser Leu Tyr Tyr Gly Ser Ile Phe Gly Gln Tyr
      180          185          190
Leu Phe Pro Thr Val Ser Ser Ser Ile Asp Lys Asp Val Ile Val Ala
      195          200          205
Leu Met Tyr Thr Val Val Thr Pro
      210          215

```

&lt;210&gt; 2480

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Unknown (1142973-dir-0-5 conceptual translation of range 1-336)

&lt;400&gt;2480

```

His Pro Leu His Tyr Ile Thr Ile Met Ser Gln Ser Arg Cys Ala Met
 1          5          10          15
Leu Val Ala Val Ser Trp Val Ile Ala Ser Ala Cys Ala Leu Leu His
      20          25          30
Ser Leu Leu Leu Asp Gln Leu Ser Phe Cys Ala Asp His Thr Val Pro
      35          40          45
His Phe Phe Cys Asp Leu Gly Ala Leu Leu Lys Leu Ser Cys Ser Asp
      50          55          60
Thr Ser Leu Asn Gln Leu Val Ile Phe Thr Ala Gly Leu Ala Ala Ile
      65          70          75          80
Met Leu Pro Phe Leu Cys Ile Leu Ile Ser Tyr Gly Arg Ile Gly Phe
      85          90          95
Thr Ile Leu Gln Val Pro Thr Thr Lys Gly Ile Cys Lys Ala Leu Ser
      100          105          110

```

&lt;210&gt; 2481

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (hg32-dir-0-8 conceptual translation of range 1-648)

&lt;400&gt;2481

```

Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys Met Leu Met
 1          5          10          15
Asn Met Gln Thr Gln His Leu Ala Val Phe Tyr Lys Gly Cys Ile Ser
          20          25          30
Gln Thr Tyr Phe Phe Ile Phe Phe Ala Asp Leu Asp Ser Phe Leu Ile
          35          40          45
Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu His
          50          55          60
Tyr Ala Thr Ile Met Thr Gln Ser Gln Cys Val Met Leu Val Ala Gly
65          70          75          80
Ser Trp Val Ile Ala Cys Ala Cys Ala Leu Leu Asp Thr Leu Leu Leu
          85          90          95
Ala Gln Leu Ser Phe Cys Ala Asp His Ile Ile Pro His Tyr Phe Cys
          100          105          110
Asp Leu Gly Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr Ser Leu Asn
          115          120          125
Gln Leu Ala Ile Phe Thr Ala Ala Leu Thr Ala Ile Met Leu Pro Phe
          130          135          140
Leu Cys Ile Leu Val Ser Tyr Gly His Ile Gly Val Thr Ile Leu Gln
145          150          155          160
Ile Pro Ser Thr Lys Gly Ile Cys Lys Ala Leu Ser Thr Cys Gly Ser
          165          170          175
His Leu Ser Val Val Thr Ile Tyr Tyr Arg Thr Ile Ile Gly Leu Tyr
          180          185          190
Phe Leu Pro Pro Ser Ser Asn Thr Asn Asp Lys Asn Ile Ile Ala Ser
          195          200          205
Val Ile Tyr Thr Ala Val Thr Pro
          210          215

```

&lt;210&gt; 2482

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Unknown (3983375-dir-0-8 conceptual translation of range 1-669)

&lt;400&gt;2482

```

Ser His Leu Ala Phe Thr Asp Ile Ser Phe Ser Ser Val Thr Ala Pro
 1          5          10          15
Lys Met Leu Met Asn Met Leu Thr His Ser Gln Ser Ile Ser His Ala
          20          25          30
Gly Cys Val Ser Gln Ile Tyr Phe Phe Leu Leu Phe Gly Cys Ile Asp
          35          40          45
Asn Phe Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
          50          55          60
His Pro Leu His Tyr Thr Thr Ile Met Ser Gln Ser Leu Cys Val Leu
65          70          75          80
Leu Val Met Val Ser Trp Ala Phe Ser Ser Ser Asn Gly Leu Val His
          85          90          95
Thr Leu Leu Phe Ala Arg Leu Ser Leu Phe Arg Asp Asn Thr Val His
          100          105          110
His Phe Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ser Ser Ser Asp
          115          120          125
Thr Thr Ile Asn Glu Leu Val Ile Leu Thr Leu Ala Val Val Val Ile
          130          135          140
Thr Val Pro Phe Ile Cys Ile Leu Val Ser Tyr Gly His Met Gly Ala
145          150          155          160
Thr Ile Leu Arg Thr Pro Ser Ile Lys Gly Ile Cys Lys Ala Leu Ser
          165          170          175
Thr Cys Gly Ser His Leu Cys Val Val Ser Leu Tyr Tyr Gly Ala Ile
          180          185          190
Ile Gly Leu Tyr Phe Phe Pro Ser Ser Asn Asn Thr Asn Asp Lys Asp
          195          200          205

```

Val Ile Val Ala Val Leu Tyr Thr Val Val Thr Pro Met Leu Asn  
 210 215 220

<210> 2483

<211> 176

<212> PRT

<213> Unknown (3273636-dir-0-7 conceptual translation of range 4-531)

<400>2483

Gln Ala Leu Ala Tyr Asp Arg Phe Leu Ala Ile Cys Gln Pro Leu His  
 1 5 10 15  
 Tyr Arg Thr Ile Met Arg Asp Gly Phe Cys Val Leu Leu Val Val Gly  
 20 25 30  
 Ser Trp Phe Phe Ser Cys Val His Ala Leu Leu His Thr Leu Leu Leu  
 35 40 45  
 Ser Arg Leu Ser Phe Cys Ala Asp Asn Ala Ile Pro His Phe Phe Cys  
 50 55 60  
 Asp Phe Thr Ala Val Leu Lys Met Thr Cys Ser Asp Thr Ser Ile Asn  
 65 70 75 80  
 Glu Leu Val Ile Phe Ile Glu Gly Gly Leu Leu Thr Ser Leu Pro Leu  
 85 90 95  
 Ser Ala Ile Leu Gly Ser Tyr Val Arg Ile Gly Ala Ser Ile Leu Arg  
 100 105 110  
 Val Pro Ser Met Lys Arg Ile Cys Lys Ala Leu Ser Thr Cys Gly Ser  
 115 120 125  
 His Leu Phe Val Val Phe Leu Tyr Tyr Gly Thr Ile Ala Met Thr Tyr  
 130 135 140  
 Phe Phe Pro Ser Ser Tyr Asn Ser Lys Val Lys Gly Ile Ile Ala Ser  
 145 150 155 160  
 Val Ile Tyr Thr Val Val Ala Pro Met Leu Asn Pro Phe Ile Cys Ser  
 165 170 175

<210> 2484

<211> 222

<212> PRT

<213> Unknown (4877296-dir-0-8 conceptual translation of range 2-667)

<400>2484

Ser His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Leu Pro  
 1 5 10 15  
 Lys Met Leu Met Asn Met Gln Thr Arg Cys Gln Ala Ile Thr Tyr Ala  
 20 25 30  
 Gly Cys Ile Ser Gln Val Tyr Cys Phe Ile Phe Phe Gly Cys Leu Asp  
 35 40 45  
 Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys  
 50 55 60  
 His Pro Leu His Tyr Thr Ala Ile Met Arg Asp Glu Leu Cys Val Ile  
 65 70 75 80  
 Leu Val Ala Gly Arg Trp Leu Ala Ala Cys Ala Gln Ala Leu Leu His  
 85 90 95  
 Thr Leu Leu Val Asp Gln Leu Thr Leu Cys Ala Gly Thr Val Ile Pro  
 100 105 110  
 His Phe Phe Cys Asp Leu Ala Val Val Leu Lys Ser Ser Cys Ser Asp  
 115 120 125  
 Thr Ser Leu Asn Glu Leu Leu Ile Leu Thr Glu Gly Gly Leu Ile Phe  
 130 135 140  
 Thr Leu Pro Leu Gly Gly Ile Leu Gly Ser Tyr Ile Arg Met Ala Ala  
 145 150 155 160  
 Ile Ile Leu Lys Val Pro Ser Phe Thr Arg Ile Phe Lys Ala Leu Ser  
 165 170 175  
 Thr Cys Gly Ser His Leu Phe Val Val Phe Leu Tyr Tyr Gly Thr Ile

	180		185		190
Ala Gly Val Tyr Tyr Phe Pro Ser Ser Gly Asn Ser Lys Val Lys Asp					
	195		200		205
Ile Val Ala Ser Leu Met Tyr Met Val Val Thr Pro Met Leu					
	210		215		220

&lt;210&gt; 2485

&lt;211&gt; 173

&lt;212&gt; PRT

&lt;213&gt; Unknown (3273660-dir-0-7 conceptual translation of range 1-519)

&lt;400&gt;2485

Gln Ala Leu Ala Tyr Asp Arg Tyr Val Ala Ile Cys Gln Leu Leu His					
1	5		10		15
Tyr Ser Thr Ile Met Arg Gln Glu Leu Cys Val Ser Leu Val Ser Gly					
	20		25		30
Ser Trp Phe Leu Cys Cys Ile Tyr Ala Leu Leu His Thr Leu Leu Leu					
	35		40		45
Val Gln Leu Ser Phe Ser Val Asp Asn Thr Ile Pro His Ser Asn Leu					
	50		55		60
Ile Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr Ser Leu Asn Glu Leu					
	65		70		75
Val Ile Phe Pro Val Arg Gly Thr Leu Leu Ile Leu Ser Leu Phe Ser					
	85		90		95
Ile Leu Gly Ser Tyr Ile His Ile Gly Pro Thr Leu Leu Ser Val Ser					
	100		105		110
Ser Thr Arg Asp Ser Lys Val Cys Ser Thr Cys Gly Phe His His Phe					
	115		120		125
Ser Val Ser Leu Tyr His Arg Lys Leu Ala Asn Val Ser Phe Phe Ser					
	130		135		140
Leu Ser Trp Asp Ser Asn Gly Lys Asp Val Thr Thr Ser Val Val Tyr					
	145		150		155
Ala Val Val Thr Pro Met Val Asn Pro Phe Ile Cys Ser					
	165		170		

&lt;210&gt; 2486

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Unknown (3273658-dir-0-6 conceptual translation of range 1-405)

&lt;400&gt;2486

Ile Tyr Ala Leu Leu His Thr Leu Leu Leu Val Gln Leu Ser Phe Ser					
1	5		10		15
Val Asp Asn Thr Ile Pro His Ser Asn Leu Ile Ala Leu Leu Lys Leu					
	20		25		30
Ser Cys Ser Asp Thr Ser Leu Asn Glu Leu Val Ile Phe Pro Val Arg					
	35		40		45
Gly Thr Leu Leu Ile Pro Ser Leu Leu Ser Ile Leu Gly Ser Tyr Ile					
	50		55		60
His Ile Gly Pro Thr Leu Leu Ser Val Ser Ser Thr Arg Asp Ser Lys					
	65		70		75
Val Cys Ser Thr Cys Gly Phe His His Phe Ser Val Ser Leu Tyr His					
	85		90		95
Arg Lys Arg Ala Asn Val Ser Phe Phe Ser Ser Ser Trp Asp Ser Asn					
	100		105		110
Gly Lys Asp Val Thr Thr Ser Val Val Tyr Ala Val Val Thr Pro Met					
	115		120		125
Leu Asn Pro Phe Ile Cys Ser					
	130		135		

&lt;210&gt; 2487

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Unknown (3273646-dir-0-7 conceptual translation of range 1-528)

&lt;400&gt;2487

Gln	Ala	Leu	Ala	Tyr	Asp	Arg	Phe	Leu	Ala	Val	Cys	His	Pro	Leu	His
1				5				10						15	
Tyr	Ala	Ile	Phe	Met	Arg	Glu	Arg	Leu	Cys	Ile	Phe	Leu	Leu	Ala	Gly
		20						25					30		
Ser	Trp	Leu	Leu	Ser	Gly	Ala	Ser	Ala	Leu	Thr	His	Thr	Leu	Leu	Val
		35					40					45			
Val	Gln	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Ile	Ile	Leu	His	Phe	Phe	Cys
	50					55					60				
Asp	Leu	Val	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Ser	Leu	Asn
65					70				75					80	
Glu	Leu	Val	Ile	Phe	Thr	Val	Gly	Ser	Val	Gly	Leu	Val	Phe	Pro	Leu
			85					90						95	
Ser	Gly	Ile	Leu	Val	Ser	Tyr	Gly	Arg	Ile	Gly	Leu	Ser	Ile	Leu	Arg
			100					105					110		
Val	Pro	Ser	Thr	Lys	Gly	Val	Cys	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser
		115					120					125			
His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Met	Ala	Val	Tyr
	130					135					140				
Phe	Ser	Ser	Ser	Ser	Gly	Gln	Ser	His	Glu	Lys	Asp	Ile	Ile	Ala	Ser
145					150					155					160
Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Val	Asn	Pro	Val	Ile	Cys	Ser
				165					170					175	

&lt;210&gt; 2488

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (205815-dir-0-11 conceptual translation of range 1-939)

&lt;400&gt;2488

Met	Ser	Ser	Thr	Asn	Gln	Ser	Ser	Val	Thr	Glu	Phe	Leu	Leu	Leu	Gly
1				5				10						15	
Leu	Ser	Arg	Gln	Pro	Gln	Gln	Gln	Gln	Leu	Leu	Phe	Leu	Leu	Phe	Leu
		20						25					30		
Ile	Met	Tyr	Leu	Ala	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
	35						40					45			
Ile	Gly	Thr	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Ser	Ser	Thr	Thr	Val	Pro	Lys
65				70					75					80	
Val	Leu	Ala	Asn	His	Ile	Leu	Gly	Ser	Gln	Ala	Ile	Ser	Phe	Ser	Gly
			85					90					95		
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Leu	Ala	Val	Phe	Gly	Asn	Met	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Lys	Met	Thr	Arg	Gln	Leu	Cys	Val	Leu	Leu
	130					135					140				
Val	Val	Gly	Ser	Trp	Val	Val	Ala	Asn	Met	Asn	Cys	Leu	Leu	His	Ile
145					150				155						160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Met	Ile	Pro	His
			165					170						175	
Phe	Phe	Cys	Asp	Gly	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
His	Leu	Asn	Glu	Leu	Met	Ile	Leu	Thr	Glu	Gly	Ala	Val	Val	Met	Val
	195					200						205			
Thr	Pro	Phe	Val	Cys	Ile	Leu	Ile	Ser	Tyr	Ile	His	Ile	Thr	Cys	Ala

210	215	220
Val Leu Arg Val Ser Ser Pro Arg Gly Gly Trp Lys Ser Phe Ser Thr		
225	230	235
Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Val Ile		240
	245	250
Ala Val Tyr Phe Asn Pro Ser Ser Ser His Leu Ala Gly Arg Asp Met		255
	260	265
Ala Ala Ala Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Pro Phe		270
	275	280
Ile Tyr Ser Leu Arg Asn Ser Asp Met Lys Ala Ala Leu Arg Lys Val		285
	290	295
Leu Ala Met Arg Phe Pro Ser Lys Gln		300
305	310	

&lt;210&gt; 2489

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (hg91-dir-0-8 conceptual translation of range 1-648)

&lt;400&gt;2489

Phe Val Asp Val Cys Phe Ser Ser Thr Thr Val Pro Lys Val Leu Ala		
1	5	10
Asn His Ile Leu Gly Ser Gln Ala Ile Ser Phe Ser Gly Cys Leu Thr		15
	20	25
Gln Leu Tyr Phe Leu Ala Val Cys Gly Asn Met Asp Asn Phe Leu Leu		30
	35	40
Gly Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu His		45
	50	55
Tyr Thr Thr Lys Met Thr Arg Gln Leu Cys Val Leu Leu Val Val Gly		60
65	70	75
Ser Trp Val Val Ala Asn Met Asn Cys Leu Leu His Ile Leu Leu Met		80
	85	90
Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro His Phe Phe Cys		95
	100	105
Asp Gly Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn		110
	115	120
Glu Leu Met Ile Leu Thr Glu Gly Ala Val Val Met Val Thr Pro Phe		125
	130	135
Val Cys Ile Leu Ile Ser Tyr Ile His Ile Thr Cys Ala Val Leu Arg		140
145	150	155
Val Ser Ser Pro Arg Gly Gly Trp Lys Ser Phe Ser Thr Cys Gly Ser		160
	165	170
His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Val Ile Ala Val Tyr		175
	180	185
Phe Asn Pro Ser Ser Ser His Leu Ala Gly Arg Asp Met Ala Ala Ala		190
	195	200
Val Met Tyr Pro Val Val Thr Pro		205
210	215	

&lt;210&gt; 2490

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Unknown (902718-dir-0-6 conceptual translation of range 2-472)

&lt;400&gt;2490

Ile Cys His Pro Leu Gln Tyr Thr Thr Lys Met Thr His Gln Leu Cys		
1	5	10
Ala Leu Leu Val Val Gly Ser Trp Val Val Ala Asn Leu Asn Cys Leu		15
	20	25
Leu His Ile Leu Leu Met Ala Pro Leu Ser Phe Cys Ala Asp Asn Ile		30
	35	40
		45

Ile Pro His Phe Phe Cys Asp Ala Thr Pro Leu Leu Lys Leu Ser Cys  
 50 55 60  
 Ser Asp Thr His Leu Asn Glu Leu Met Ile Leu Thr Glu Gly Ala Val  
 65 70 75 80  
 Ile Ile Val Thr Pro Phe Val Cys Ile Leu Ile Ser Tyr Ile His Val  
 85 90 95  
 Thr Cys Ala Val Leu Arg Val Ser Ser Pro Arg Gly Gly Trp Lys Ala  
 100 105 110  
 Phe Ser Thr Arg Gly Ser His Pro Ala Val Val Cys Leu Phe Tyr Gly  
 115 120 125  
 Thr Ile Ile Ala Glu Tyr Phe Ser Ser Ser Ser Pro His Ser Ala Gly  
 130 135 140  
 Arg Asp Met Ala Gly Ala Met Met Tyr Thr Val Val Thr  
 145 150 155

&lt;210&gt; 2491

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Unknown (3769625-dir-0-8 conceptual translation of range 1-663)

&lt;400&gt;2491

Ser Asn Leu Ser Phe Val Asp Val Cys Phe Ser Ser Thr Thr Ala Pro  
 1 5 10 15  
 Ser Val Leu Ala Asn His Ile Leu Gly Ser Gln Lys Ile Ser Phe Ser  
 20 25 30  
 Gly Cys Leu Thr Gln Leu Tyr Phe Leu Cys Ile Phe Gly Asp Met Asp  
 35 40 45  
 Asn Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys  
 50 55 60  
 His Pro Leu Arg Tyr Thr Thr Lys Met Thr His Gln Val Cys Ala Leu  
 65 70 75 80  
 Leu Val Met Gly Ser Trp Val Val Ala Asn Met Asn Cys Leu Leu His  
 85 90 95  
 Ile Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Ser Ile Ile Pro  
 100 105 110  
 His Phe Phe Cys Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp  
 115 120 125  
 Thr His Leu Asn Glu Leu Met Ile Leu Thr Glu Gly Ala Val Val Met  
 130 135 140  
 Val Thr Pro Phe Val Cys Ile Leu Ile Ser Tyr Ile His Ile Thr Trp  
 145 150 155 160  
 Ala Val Leu Arg Val Ser Ser Pro Arg Gly Gly Trp Lys Ala Phe Ser  
 165 170 175  
 Thr Cys Gly Ser His Leu Thr Val Val Cys Leu Leu Tyr Gly Thr Val  
 180 185 190  
 Ile Thr Val Tyr Phe Asn Pro Ser Thr Ser Tyr Ser Ala Gly Arg Asp  
 195 200 205  
 Thr Ala Ala Ala Val Met Tyr Thr Val Val Thr Pro Met  
 210 215 220

&lt;210&gt; 2492

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Unknown (3769644-dir-0-8 conceptual translation of range 1-663)

&lt;400&gt;2492

Thr Asn Leu Ser Phe Val Asp Val Cys Phe Ser Ser Ser Thr Val Pro  
 1 5 10 15  
 Lys Val Leu Ala Asn His Ile Leu Gly Ser Gln Glu Ile Ser Phe Ser  
 20 25 30  
 Gly Cys Leu Thr Gln Met Tyr Phe Leu Ser Val Phe Ala Asp Met Asp

35	40	45
Asn Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys		
50	55	60
His Pro Leu His Tyr Thr Glu Lys Met Thr Arg Gln Leu Cys Ala Leu		
65	70	75
Leu Val Val Glu Ser Trp Val Ala Ala Asn Leu Asn Ala Leu Leu His		
85	90	95
Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Gly Asp Asn Ile Ile Pro		
100	105	110
His Phe Phe Cys Asp Ala Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp		
115	120	125
Thr His Leu Asn Glu Leu Met Ile Leu Thr Val Ala Gly Leu Ile Leu		
130	135	140
Leu Ala Pro Phe Val Cys Ile Leu Met Ser Tyr Ile Leu Ile Ala Cys		
145	150	155
Ala Val Val Arg Val Ser Ser Thr Gly Gly Arg Trp Lys Ala Phe Ser		
165	170	175
Thr Cys Gly Ser His Leu Thr Val Val Cys Leu Phe Tyr Gly Thr Ile		
180	185	190
Ile Ala Val Tyr Phe Asn Pro Ala Ser Ser His Ser Ala Gly Arg Asp		
195	200	205
Met Ala Ser Ala Met Met Tyr Thr Val Val Thr Pro Met		
210	215	220

&lt;210&gt; 2493

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Unknown (2808536-dir-0-11 conceptual translation of range 16-996)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(327)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2493

Val Cys Phe Xaa Ile His Cys Leu Leu Cys Ser Trp Val Gln Thr Tyr	
1	15
Glu Arg Asp Lys Pro Val Ser Val Ser Glu Phe Leu Leu Gly Leu	
20	30
Ser Arg Gln Pro Gln Gln Gln His Leu Leu Phe Val Phe Phe Leu Ser	
35	45
Met Tyr Leu Ala Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ile	
50	60
Ser Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn	
65	80
Met Ser Phe Val Asp Asn Cys Phe Ser Thr Val Pro Lys Met Leu	
85	95
Ala Asn His Ile Leu Arg Thr Gln Thr Ile Ser Phe Ser Gly Cys Leu	
100	110
Met Gln Met Tyr Phe Ile Ser Glu Leu Ala Asp Met Asp Asn Phe Leu	
115	125
Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys Arg Pro Leu	
130	140
His Tyr Thr Ala Lys Met Ile His Gln Leu Cys Ala Leu Leu Val Thr	
145	160
Gly Ser Trp Val Val Ala Asn Ser Asn Ala Leu Leu His Thr Leu Leu	
165	175
Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Thr Ile Pro His Ile Phe	
180	190
Cys Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu	
195	205



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Ser Glu Val Met Ile Leu Thr Glu Ala Ala Leu Val Thr Ile Thr Pro
 210          215          220
Phe Leu Cys Leu Leu Ala Ser Tyr Met His Ile Thr Cys Val Val Leu
225          230          235          240
Arg Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly
          245          250          255
Ser His Leu Ala Val Val Leu Leu Phe Tyr Gly Thr Ile Met Ser Pro
          260          265          270
Tyr Phe Arg Thr Ser Ser Ser His Ser Ala Gln Arg Asp Ile Ala Ala
          275          280          285
Ala Val Arg Phe Thr Val Val Thr Pro Val Met Asn Pro Leu Ile Tyr
          290          295          300
Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Val Lys Val Val Ala
305          310          315          320
Val Lys Phe Phe Ser Val Gln
          325

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&lt;210&gt; 2494

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (2370144-dir-0-11 conceptual translation of range 1-936)

&lt;400&gt;2494

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Met Ser Gly Thr Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Leu Gly
 1          5          10          15
Leu Ser Arg Gln Pro Gln Gln Gln His Leu Leu Phe Val Phe Phe Leu
          20          25          30
Ser Met Tyr Leu Ala Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ser
          35          40          45
Val Ser Ile Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Val Asp Ile Cys Phe Ser Phe Thr Thr Val Pro Lys
65          70          75          80
Met Leu Ala Asn His Ile Leu Glu Thr Gln Thr Ile Ser Phe Cys Gly
          85          90          95
Cys Leu Thr Gln Met Tyr Phe Val Phe Met Phe Val Asp Met Asp Asn
          100          105          110
Phe Leu Leu Ala Val Met Ala Tyr Asp His Phe Val Ala Val Cys His
          115          120          125
Pro Leu His Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu
          130          135          140
Val Ala Gly Leu Trp Val Val Ala Asn Leu Asn Val Leu Leu His Thr
145          150          155          160
Leu Leu Met Ala Pro Leu Ser Phe Cys Ala Asp Asn Ala Ile Thr His
          165          170          175
Phe Phe Cys Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asn Thr
          180          185          190
His Leu Asn Glu Val Ile Ile Leu Ser Glu Gly Ala Leu Val Met Ile
          195          200          205
Thr Pro Phe Leu Cys Ile Leu Ala Ser Tyr Met His Ile Thr Cys Thr
          210          215          220
Val Leu Lys Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Ala Val Val Leu Leu Phe Tyr Ser Thr Ile Ile
          245          250          255
Ala Val Tyr Phe Asn Pro Leu Ser Ser His Ser Ala Glu Lys Asp Thr
          260          265          270
Met Ala Thr Val Leu Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Arg Tyr Leu Lys Gly Ala Leu Lys Lys Val
290          295          300

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Ile Gly Arg Val Val Phe Ser Val  
305 310

<210> 2495

<211> 216

<212> PRT

<213> Unknown (2921659-dir-0-8 conceptual translation of range 2-649)

<400>2495

Phe	Val	Asp	Ile	Cys	Phe	Ser	Phe	Thr	Thr	Val	Pro	Lys	Met	Leu	Ala
1				5					10					15	
Asn	His	Ile	Leu	Glu	Thr	Gln	Thr	Ile	Ser	Phe	Cys	Gly	Cys	Leu	Thr
			20					25					30		
Gln	Met	Tyr	Phe	Val	Phe	Met	Phe	Val	Asp	Met	Asp	Asn	Phe	Leu	Leu
		35					40					45			
Ala	Val	Met	Ala	Tyr	Asp	His	Phe	Val	Ala	Val	Cys	His	Pro	Leu	His
	50					55					60				
Tyr	Thr	Ala	Lys	Val	Thr	His	Gln	Leu	Cys	Ala	Leu	Leu	Val	Ala	Gly
65					70				75					80	
Leu	Trp	Val	Val	Ala	Asn	Leu	Asn	Val	Leu	Leu	His	Thr	Leu	Leu	Met
				85				90					95		
Ala	Pro	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Ala	Ile	Thr	His	Phe	Phe	Cys
			100					105					110		
Asp	Val	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	His	Leu	Asn
		115					120					125			
Glu	Val	Ile	Ile	Leu	Ser	Glu	Gly	Ala	Leu	Val	Met	Ile	Thr	Pro	Phe
		130				135					140				
Leu	Cys	Ile	Leu	Ala	Ser	Tyr	Met	His	Ile	Thr	Cys	Thr	Val	Leu	Lys
145					150				155					160	
Val	Pro	Ser	Thr	Lys	Gly	Arg	Trp	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser
				165					170					175	
His	Leu	Ala	Val	Val	Leu	Leu	Phe	Tyr	Ser	Thr	Ile	Ile	Ala	Val	Tyr
			180				185						190		
Phe	Asn	Pro	Leu	Ser	Ser	His	Ser	Ala	Glu	Lys	Asp	Thr	Met	Ala	Thr
		195				200						205			
Val	Leu	Tyr	Thr	Val	Val	Thr	Pro								
		210				215									

<210> 2496

<211> 216

<212> PRT

<213> Unknown (2921657-dir-0-8 conceptual translation of range 2-649)

<400>2496

Phe	Val	Asp	Ile	Cys	Phe	Ser	Ser	Thr	Thr	Val	Pro	Lys	Met	Leu	Ala
1				5					10					15	
Asn	His	Ile	Leu	Glu	Thr	Gln	Thr	Ile	Ser	Phe	Cys	Gly	Cys	Leu	Thr
			20					25					30		
Gln	Met	Tyr	Phe	Val	Phe	Met	Phe	Val	Asp	Met	Asp	Tyr	Phe	Leu	Leu
		35					40					45			
Ala	Val	Met	Ala	Tyr	Asp	His	Phe	Val	Ala	Val	Cys	His	Pro	Leu	His
	50					55					60				
Tyr	Thr	Ala	Lys	Met	Thr	His	Gln	Leu	Cys	Ala	Leu	Leu	Val	Ala	Gly
65					70				75					80	
Leu	Trp	Val	Val	Ala	Asn	Leu	Asn	Val	Leu	Leu	His	Thr	Leu	Leu	Met
				85				90					95		
Ala	Pro	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Ala	Ile	Thr	His	Phe	Phe	Cys
			100					105					110		
Asp	Val	Thr	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Asp	Thr	His	Leu	Asn
		115					120					125			
Glu	Val	Ile	Ile	Leu	Ser	Glu	Gly	Ala	Leu	Val	Met	Ile	Thr	Pro	Phe

130	135	140
Leu Cys Ile Leu Ala Ser Tyr Met His Ile Thr Cys Thr Val Leu Lys		
145	150	155
Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly Ser		160
	165	170
His Leu Ala Val Val Leu Leu Phe Tyr Ser Thr Ile Ile Ala Val Tyr		175
	180	185
Phe Asn Pro Leu Ser Ser His Ser Ala Glu Lys Asp Thr Met Ala Thr		190
	195	200
Val Leu Tyr Thr Val Val Thr Pro		205
210	215	

&lt;210&gt; 2497

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921653-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2497

Phe Val Asp Ile Cys Phe Ser Ser Thr Thr Val Pro Lys Met Leu Ala		
1	5	10
Asn His Ile Leu Glu Thr Gln Thr Ile Ser Leu Cys Gly Cys Leu Thr		15
	20	25
Gln Met Tyr Phe Val Phe Met Phe Val Asp Met Asp Asn Phe Leu Leu		30
	35	40
Ala Val Met Ala Tyr Asp His Phe Val Ala Val Cys His Pro Leu His		45
	50	55
Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu Val Ala Gly		60
	65	70
Leu Trp Val Val Ala Asn Leu Asn Val Leu Leu His Thr Leu Leu Met		75
	85	90
Ala Pro Leu Ser Phe Cys Ala Asp Asn Ala Ile Thr His Phe Phe Cys		95
	100	105
Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn		110
	115	120
Glu Val Ile Ile Leu Ser Glu Gly Ala Leu Val Met Ile Thr Pro Phe		125
	130	135
Leu Cys Ile Leu Ala Ser Tyr Met His Ile Thr Cys Thr Val Leu Lys		140
	145	150
Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly Ser		155
	165	170
His Leu Ala Val Val Leu Leu Phe Tyr Ser Thr Ile Ile Ala Val Tyr		175
	180	185
Phe Asn Pro Leu Ser Ser His Ser Ala Glu Lys Asp Thr Met Pro Thr		190
	195	200
Val Leu Tyr Thr Val Val Thr Pro		205
210	215	

&lt;210&gt; 2498

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921655-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2498

Phe Val Asp Ile Cys Phe Ser Phe Thr Thr Val Pro Lys Met Leu Ala		
1	5	10
Asn His Ile Leu Glu Thr Gln Thr Ile Ser Phe Cys Gly Cys Leu Thr		15
	20	25
Gln Met Tyr Phe Val Phe Thr Phe Val Asp Met Asp Asn Phe Leu Leu		30
	35	40
Ala Val Met Ala Tyr Asp His Phe Val Ala Glu Cys His Pro Leu His		45
	50	55
		60

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Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu Val Ala Gly
65          70          75          80
Leu Trp Val Val Ala Asn Leu Asn Val Leu Leu His Thr Leu Leu Met
          85          90          95
Ala Pro Leu Ser Phe Cys Ala Asp Asn Ala Ile Thr His Phe Phe Cys
          100          105          110
Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn
          115          120          125
Glu Val Ile Ile Leu Ser Glu Gly Ala Leu Val Met Ile Thr Pro Phe
          130          135          140
Leu Cys Ile Leu Ala Ser Tyr Met His Ile Thr Cys Thr Val Leu Lys
145          150          155          160
Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly Ser
          165          170          175
His Leu Ala Val Val Leu Leu Phe Tyr Ser Thr Ile Ile Ala Val Tyr
          180          185          190
Phe Asn Pro Leu Ser Ser His Ser Ala Glu Lys Asp Thr Met Ala Thr
          195          200          205
Val Leu Tyr Thr Val Val Thr Pro
          210          215

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&lt;210&gt; 2499

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921651-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2499

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Phe Val Asp Ile Cys Phe Ser Phe Thr Thr Val Pro Lys Met Leu Ala
1          5          10          15
Asp His Ile Leu Glu Thr Gln Thr Ile Ser Phe Cys Gly Cys Leu Thr
          20          25          30
Gln Met Tyr Phe Val Phe Met Phe Val Asp Met Asp Asn Phe Leu Leu
          35          40          45
Ala Val Met Ala Tyr Asp His Phe Val Ala Val Cys His Pro Leu His
          50          55          60
Tyr Thr Ala Arg Met Thr His Gln Leu Cys Ala Leu Leu Val Ala Gly
65          70          75          80
Leu Trp Val Val Ala Asn Leu Asn Val Leu Leu His Thr Leu Leu Met
          85          90          95
Ala Pro Leu Ser Phe Tyr Ala Asp Asn Ala Ile Thr His Phe Phe Cys
          100          105          110
Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn
          115          120          125
Glu Val Ile Ile Leu Ser Glu Gly Ala Leu Val Met Ile Thr Pro Phe
          130          135          140
Leu Cys Ile Leu Ala Ser Tyr Met His Ile Thr Cys Thr Val Leu Lys
145          150          155          160
Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly Ser
          165          170          175
His Leu Ala Val Val Leu Leu Phe Tyr Ser Thr Ile Ile Ala Val Tyr
          180          185          190
Phe Asn Pro Leu Ser Ser His Ser Ala Glu Lys Asp Thr Ile Ala Thr
          195          200          205
Val Leu Tyr Thr Val Val Thr Pro
          210          215

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&lt;210&gt; 2500

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921692-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2500

```

Phe Val Asp Ile Cys Phe Ser Cys Thr Thr Val Pro Lys Met Leu Ala
 1           5           10           15
Asn His Ile Leu Glu Thr Gln Thr Ile Ser Phe Cys Gly Cys Leu Thr
          20           25           30
Gln Met Tyr Phe Val Phe Met Phe Val Asp Thr Asp Asn Phe Leu Leu
          35           40           45
Ala Val Met Ala Tyr Asp His Phe Val Ala Val Cys His Pro Leu His
          50           55           60
Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu Val Ala Gly
65           70           75           80
Leu Trp Val Val Ala Asn Leu Asn Val Leu Leu His Thr Leu Leu Met
          85           90           95
Ala Pro Leu Ser Phe Cys Ala Asp Asn Ala Ile Thr His Phe Phe Cys
          100          105          110
Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn
          115          120          125
Glu Val Ile Ile Leu Ser Glu Gly Ala Leu Val Met Ile Thr Pro Phe
          130          135          140
Leu Cys Asn Leu Ala Ser Tyr Met His Ile Thr Cys Thr Gly Leu Lys
145          150          155          160
Gly Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly Ser
          165          170          175
His Leu Ala Val Gly Leu Leu Phe Tyr Ser Thr Ile Thr Ala Val Tyr
          180          185          190
Phe Asn Pro Leu Ser Ser His Ser Ala Ala Lys Asp Thr Met Ala Thr
          195          200          205
Val Leu Tyr Thr Val Val Thr Pro
          210          215

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&lt;210&gt; 2501

&lt;211&gt; 224

&lt;212&gt; PRT

&lt;213&gt; Unknown (4877342-dir-0-8 conceptual translation of range 2-673)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(224)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2501

```

Cys Asn Leu Ser Phe Gly Asp Ile Cys Phe Ser Ser Thr Thr Val Pro
 1           5           10           15
Lys Met Leu Ala Asn His Ile Leu Arg Lys Gln Thr Ile Pro Phe Ser
          20           25           30
Arg Cys Leu Ala Gln Met Tyr Phe Val Phe Thr Phe Met Asp Met Asp
          35           40           45
Asn Phe Leu Leu Ala Met Met Ala Tyr Asp His Phe Val Ala Val Cys
          50           55           60
His Pro Leu His Tyr Tyr Ala Lys Met Thr His Gln Leu Cys Ala Leu
65           70           75           80
Leu Val Thr Gly Ser Trp Val Ile Ala Asn Leu Asp Met Leu Leu His
          85           90           95
Thr Leu Leu Met Ala Xaa Leu Ser Phe Cys Ala Asp Asn Ala Ile Pro
          100          105          110
His Phe Phe Cys Asp Val Thr Thr Leu Leu Lys Leu Ser Cys Ser Asp
          115          120          125
Thr His Leu Ser Glu Val Met Ile Leu Thr Glu Ala Arg Pro Val Met
          130          135          140
Ser Thr Pro Phe Val Cys Ile Leu Val Ser Tyr Ile Leu Ile Asn Cys
145          150          155          160

```

Ala	Val	Leu	Arg	Val	Gln	Ser	Thr	Lys	Gly	Arg	Trp	Lys	Thr	Phe	Ser
				165					170					175	
Thr	Cys	Gly	Ser	His	Leu	Ala	Met	Val	Phe	Leu	Phe	Tyr	Gly	Thr	Met
			180					185					190		
Ile	Phe	Leu	Tyr	Phe	Asn	Pro	Leu	Ser	Ser	His	Ser	Ala	Glu	Ile	Asp
		195					200					205			
Ile	Ala	Ala	Ala	Ala	Met	Arg	Cys	Leu	Tyr	Met	Val	Thr	Pro	Met	Leu
	210					215					220				

&lt;210&gt; 2502

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p105-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2502

Leu	Val	Asp	Phe	Cys	Phe	Thr	Ser	Ala	Thr	Val	Pro	Lys	Met	Leu	Leu
1				5					10					15	
Asn	Ile	His	Arg	Gln	Ile	Gln	Ser	Ile	Ser	His	Glu	Gly	Cys	Leu	Thr
			20					25					30		
Gln	Ile	Tyr	Phe	Cys	Ile	Leu	Leu	Ala	Asn	Met	Asp	Asn	Phe	Leu	Leu
		35					40					45			
Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Tyr	Pro	Leu	Gln
	50					55					60				
Tyr	Thr	Thr	Ile	Met	Ser	Leu	Gln	Leu	Cys	Cys	Leu	Met	Leu	Ala	Gly
65					70					75					80
Ser	Trp	Leu	Ile	Ala	Asn	Phe	His	Ser	Leu	Leu	His	Thr	Leu	Leu	Met
				85					90					95	
Ala	Arg	Leu	Asp	Phe	Cys	Ala	Lys	Asn	Val	Met	Pro	Tyr	Phe	Phe	Cys
			100					105					110		
Asp	Leu	Val	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Arg	Leu	Asn
		115					120					125			
Gln	Leu	Met	Ile	Leu	Leu	Val	Gly	Gly	Leu	Ile	Val	Leu	Ile	Pro	Phe
	130					135					140				
Leu	Cys	Ile	Leu	Ile	Ser	Tyr	Thr	His	Ile	Val	Ser	Val	Val	Leu	Lys
145					150					155					160
Val	Pro	Ser	Ala	Leu	Gly	Lys	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser
				165					170					175	
His	Leu	Thr	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr	Ile	Thr	Gly	Val	Tyr
			180					185					190		
Leu	Asn	Pro	Ser	Ser	Ser	His	Ser	Ala	Glu	Lys	Asp	Ser	Val	Ala	Ser
		195					200					205			
Val	Met	Tyr	Met	Val	Val	Thr	Pro								
	210					215									

&lt;210&gt; 2503

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p110-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2503

Phe	Val	Asp	Leu	Cys	Gln	Ala	Ser	Thr	Thr	Met	Pro	Lys	Met	Leu	Ile
1				5					10					15	
Asn	Ile	Leu	Thr	His	Ser	Lys	Ala	Ile	Pro	Tyr	Ala	Gly	Cys	Leu	Ile
			20					25					30		
Gln	Met	Tyr	Ser	Phe	His	Leu	Phe	Gly	Thr	Met	Asp	Ser	Phe	Leu	Leu
		35					40					45			
Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro	Leu	Arg
		50				55					60				
Tyr	Ala	Thr	Ile	Met	Ser	Pro	Arg	Leu	Cys	Ile	Leu	Leu	Val	Gly	Gly
65					70					75					80
Pro	Trp	Gly	Thr	Thr	Asn	Leu	Gln	Ser	Val	Val	His	Thr	Ser	Leu	Met

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<210> 2504
<211> 216
<212> PRT
<213> Unknown (p94-dir-0-8 conceptual translation of range 2-649)
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<210> 2505
<211> 169
<212> PRT
<213> Unknown (4877330-dir-0-7 conceptual translation of range 3-509)
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1521

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Met Leu Val Asn Leu Trp Thr Gln Pro Ser His Pro Ser Val Cys Leu
      20      25      30
Ala Gln Met His Ala Phe His Leu Phe Gly Thr Ile Asp Ser Phe Leu
      35      40      45
Leu Ala Val Met Ala Ile Asp Arg Phe Met Ala Ile Val His Arg Leu
      50      55      60
Cys Tyr Leu Ala Ile Met Ser Pro Arg Val Trp Gly Leu Leu Val Gly
      65      70      75      80
Glu Pro Trp Gln Ile Thr Asn Leu Gln Ser Leu Val His Thr Cys Leu
      85      90      95
Met Ala Gln Leu Thr Phe Cys Ala Gly Ser Glu Ile Pro His Phe Phe
      100      105      110
Cys Asp Leu Ile Pro Leu Pro Lys Leu Ser Ser Ser Asp Thr His Thr
      115      120      125
Asn Glu Pro Val Ile Phe Pro Phe Gly Ile Ile Leu Gly Ile Ser Ser
      130      135      140
Leu Ala Cys Ile Leu Phe Ser Tyr Thr Ser Ile Phe Gln Ala Val Phe
      145      150      155      160
Lys Ile Leu Ser Ala Gln Val Lys Trp
      165

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&lt;210&gt; 2506

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (3184261-dir-59-13 conceptual translation of range 6034-6978)

&lt;400&gt;2506

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Met Glu Pro Glu Lys Gln Thr Glu Ile Ser Glu Phe Phe Leu Gln Gly
  1      5      10      15
Leu Ser Glu Lys Pro Glu His Gln Thr Leu Leu Phe Thr Met Phe Leu
      20      25      30
Ser Thr Tyr Leu Val Thr Ile Ile Gly Asn Ala Leu Ile Ile Leu Ala
      35      40      45
Ile Ile Thr Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe
      50      55      60
Asn Leu Ser Leu Val Asp Thr Leu Leu Ser Ser Thr Thr Val Pro Lys
      65      70      75      80
Met Leu Ala Asn Ile Gln Ala Gln Ser Arg Ala Ile Pro Phe Val Gly
      85      90      95
Cys Leu Thr Gln Met Tyr Ala Phe His Leu Phe Gly Thr Met Asp Ser
      100      105      110
Phe Leu Leu Ala Val Met Ala Ile Asp Arg Phe Val Ala Ile Val His
      115      120      125
Pro Gln Arg Tyr Leu Val Leu Met Cys Ser Pro Val Cys Gly Leu Leu
      130      135      140
Leu Gly Ala Ser Trp Met Ile Thr Asn Leu Gln Ser Leu Ile His Thr
      145      150      155      160
Cys Leu Met Ala Gln Leu Thr Phe Cys Ala Gly Ser Glu Ile Ser His
      165      170      175
Phe Phe Cys Asp Leu Met Pro Leu Leu Lys Leu Ser Gly Ser Asp Thr
      180      185      190
His Thr Asn Glu Leu Val Ile Phe Ala Phe Gly Ile Val Val Gly Thr
      195      200      205
Ser Pro Phe Ser Cys Ile Leu Leu Ser Tyr Ile Arg Ile Phe Trp Thr
      210      215      220
Val Phe Lys Ile Pro Ser Thr Arg Gly Lys Trp Lys Ala Phe Ser Thr
      225      230      235      240
Cys Gly Leu His Leu Thr Val Val Ser Leu Ser Tyr Gly Thr Ile Phe
      245      250      255
Ala Val Tyr Leu Gln Pro Thr Ser Pro Ser Ser Ser Gln Lys Asp Lys
      260      265      270

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Ala Ala Ala Leu Met Cys Gly Val Phe Ile Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Ile Arg Asn Lys Asp Met Lys Ala Ala Leu Gly Lys Leu  
 290 295 300  
 Ile Gly Lys Val Ala Val Pro Cys Pro Arg Pro  
 305 310 315

&lt;210&gt; 2507

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p97-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2507

Leu Val Asp Ile Cys Phe Thr Ser Thr Thr Ile Pro Lys Met Leu Ala  
 1 5 10 15  
 Asn His Val Ser Gly Asn Lys Ala Ile Pro Tyr Ala Gly Cys Arg Thr  
 20 25 30  
 Gln Val Phe Phe Phe Ile Trp Phe Pro Gly Val Asp Ser Ile Leu Leu  
 35 40 45  
 Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ala Pro Leu His  
 50 55 60  
 Tyr Ser Met Ile Met Thr Pro Lys Val Cys Ala Phe Leu Ile Val Val  
 65 70 75 80  
 Ser Trp Phe Gly Ala Tyr Ala Ile Ala Leu Ile His Thr Val Leu Leu  
 85 90 95  
 Thr His Leu Ser Phe Cys Gly His Ser Glu Ile Pro His Phe Phe Cys  
 100 105 110  
 Asp Leu Ser Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr Phe Ile Asn  
 115 120 125  
 Asn Leu Met Val Asn Thr Val Gly Ala Leu Thr Ile Ile Ile Pro Phe  
 130 135 140  
 Ile Gly Ile Leu Ile Ser Tyr Thr Gln Ile Phe Met Thr Val Leu Arg  
 145 150 155 160  
 Ile Pro Ser Thr Val Gly Lys Trp Lys Ala Phe Ser Thr Cys Ser Ser  
 165 170 175  
 His Ile Thr Val Val Ser Leu Phe Tyr Gly Thr Leu Ile Gly Val Tyr  
 180 185 190  
 Phe Ser Pro Thr Thr Thr His Thr Ala Gln Gln Asp Thr Ala Ala Ala  
 195 200 205  
 Ala Met Tyr Thr Val Val Thr Pro  
 210 215

&lt;210&gt; 2508

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p99-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2508

Leu Val Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys Met Leu Ala  
 1 5 10 15  
 Asn His Val Ser Gly Asn Lys Met Ile Pro Tyr Pro Gly Cys Leu Thr  
 20 25 30  
 Gln Val Phe Phe Phe Ile Trp Phe Ala Gly Ile Asp Ser Phe Leu Leu  
 35 40 45  
 Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ala Pro Leu His  
 50 55 60  
 Tyr Ser Thr Val Met Thr Leu Arg Val Cys Val Leu Leu Leu Met Val  
 65 70 75 80  
 Ser Trp Phe Ser Ala Phe Ile Asn Ala Leu Thr His Ala Ala Leu Leu  
 85 90 95  
 Thr Pro Leu Ser Phe Cys Gly His Asn Glu Ile Pro His Phe Phe Cys

			100					105					110				
Asp	Leu	Ser	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Phe	Ile	Asn		
		115					120					125					
Asp	Leu	Met	Val	Tyr	Thr	Val	Gly	Ala	Leu	Pro	Ile	Ile	Thr	Pro	Phe		
	130					135					140						
Ile	Gly	Ile	Leu	Ile	Ser	Tyr	Thr	Arg	Ile	Phe	Met	Ala	Val	Leu	Arg		
145					150					155					160		
Val	Pro	Ser	Ala	Gly	Gly	Lys	Trp	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser		
				165					170					175			
His	Leu	Ala	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Ile	Gly	Val	Tyr		
		180						185					190				
Phe	Ser	Pro	Thr	Ser	Thr	Arg	Thr	Ala	Gln	Glu	Asp	Thr	Val	Ala	Ala		
	195						200					205					
Val	Met	Tyr	Thr	Val	Val	Thr	Pro										
	210					215											

&lt;210&gt; 2509

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p96-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2509

Leu	Val	Asp	Leu	Cys	Phe	Thr	Ser	Thr	Thr	Val	Pro	Lys	Met	Leu	Asn		
1			5					10					15				
Asn	Tyr	Ile	Ser	Gln	Asn	Arg	Thr	Ile	Ser	Tyr	Ala	Gly	Cys	Leu	Thr		
		20					25					30					
Gln	Val	Phe	Phe	Phe	Leu	Trp	Phe	Ala	Gly	Met	Asp	Ser	Val	Leu	Leu		
	35					40					45						
Thr	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ala	Ser	Leu	His		
	50				55					60							
Tyr	Ser	Thr	Val	Met	Thr	Pro	Lys	Ile	Cys	Ala	Leu	Leu	Val	Gly	Val		
65			70					75						80			
Ser	Trp	Phe	Trp	Ala	Tyr	Asn	Asn	Ala	Leu	Ile	His	Thr	Val	Leu	Leu		
		85					90						95				
Thr	Arg	Leu	Ser	Phe	Cys	Gly	His	Asn	Glu	Ile	Pro	His	Phe	Phe	Cys		
	100					105					110						
Asp	Leu	Ser	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Phe	Ile	Asn		
	115					120					125						
Asp	Leu	Met	Ile	Tyr	Thr	Val	Gly	Ala	Leu	Thr	Ile	Ile	Leu	Pro	Phe		
	130				135						140						
Ile	Gly	Ile	Met	Ile	Ser	Tyr	Val	His	Ile	Phe	Met	Ala	Val	Leu	Lys		
145				150					155						160		
Ile	Ser	Ser	Val	Ser	Gly	Lys	Gln	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser		
		165					170						175				
His	Leu	Thr	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly	Val	Tyr		
	180						185						190				
Phe	Ser	Pro	Thr	Ser	Thr	His	Thr	Ala	Gln	Gln	Asp	Thr	Ala	Ala	Thr		
	195					200						205					
Val	Met	Tyr	Thr	Val	Val	Thr	Pro										
	210					215											

&lt;210&gt; 2510

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p92-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2510

Leu	Phe	Asp	Ile	Cys	Phe	Thr	Ser	Thr	Thr	Ile	Pro	Lys	Met	Leu	Val		
1			5					10					15				
Asn	His	Ile	Ser	Lys	Asn	Lys	Val	Ile	Pro	Tyr	Ser	Met	Cys	Leu	Thr		
		20					25					30					

```

Gln Thr Phe Phe Phe Ser Trp Phe Ile Gly Thr Asp Gly Val Leu Leu
      35              40              45
Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ala Pro Leu His
      50              55              60
Cys Thr Met Ile Ile Thr Pro Arg Val Cys Val Phe Leu Val Ala Val
      65              70              75              80
Ser Trp Ile Trp Thr Cys Val Asn Ser Leu Ile His Thr Thr Ser Leu
              85              90              95
Asn Arg Leu Ser Phe Cys Gly His Asn Glu Ile His His Phe Phe Cys
              100              105              110
Asp Leu Ser Ala Leu Ile Lys Leu Ala Cys Ser Asp Thr Phe Ile Asn
              115              120              125
Asp Leu Leu Ile Tyr Thr Val Gly Gly Leu Lys Ala Ile Val Pro Phe
              130              135              140
Ile Gly Ile Leu Leu Ser Tyr Ile His Ile Phe Val Ala Val Leu Arg
      145              150              155              160
Ile Pro Ser Ala Gly Gly Lys Arg Lys Ala Phe Ser Thr Cys Gly Ser
              165              170              175
His Leu Thr Val Val Cys Leu Phe Tyr Gly Thr Ile Ile Gly Val Tyr
              180              185              190
Phe Ser Pro Thr Ser Thr His Thr Ala Gln Lys Asp Thr Ala Val Ala
              195              200              205
Val Met Tyr Thr Val Val Thr Pro
      210              215

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&lt;210&gt; 2511

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p95-dir-0-8 conceptual translation of range 2-649)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(216)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2511

```

Leu Val Asp Ile Cys Phe Thr Ser Thr Thr Ile Pro Lys Thr Leu Val
      1              5              10              15
Asn Tyr Val Ser Gly Asn Lys Ala Ile Leu Tyr Ile Ser Cys Leu Ala
      20              25              30
Gln Val Phe Phe Phe Ser Trp Phe Ala Gly Leu Asp Ser Ile Leu Leu
      35              40              45
Ala Ser Met Ala Tyr Asp Arg Xaa Ile Ala Ile Cys Asp Pro Leu His
      50              55              60
Tyr Thr Thr Val Met Thr Pro Arg Val Cys Val Leu Leu Val Ala Met
      65              70              75              80
Cys Leu Phe Gly Gly Cys Ala Asn Ser Leu Thr His Asn Ile Leu Leu
      85              90              95
Thr Gln Leu Ser Phe Cys Gly His Thr Glu Ile Pro Leu Phe Phe Cys
              100              105              110
Asp Leu Asn Val Val Ile Arg Leu Ala Cys Ser Asp Thr Phe Ile Asn
              115              120              125
Asp Trp Met Ile Tyr Thr Met Gly Gly Leu Thr Ala Ile Ile Pro Phe
              130              135              140
Ser Gly Ile Leu Ile Ser Tyr Ile His Ile Phe Val Ala Met Leu Arg
      145              150              155              160
Ile Leu Ser Ala Gln Gly Lys Trp Lys Val Phe Ser Thr Cys Gly Ser
              165              170              175
His Leu Ile Ala Val Tyr Leu Leu Asn Gly Thr Ile Ile Gly Val Tyr
              180              185              190
Leu Asn Pro Thr Ser Ser His Thr Ala Gln Gln Asp Thr Ala Ser Ala

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195 200 205  
Val Met Tyr Thr Met Val Thr Pro  
210 215

&lt;210&gt; 2512

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p125-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2512

Phe	Val	Asp	Leu	Cys	Phe	Thr	Thr	Thr	Thr	Val	Pro	Lys	Met	Leu	Val
1				5					10					15	
Asn	His	Ile	Ser	Gly	Asn	Lys	Thr	Ile	Pro	Tyr	Ala	Gly	Cys	Leu	Thr
			20					25					30		
Gln	Met	Phe	Phe	Phe	Ile	Trp	Phe	Ala	Ser	Ile	Asp	Ser	Phe	Leu	Leu
		35					40					45			
Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	His	Pro	Leu	Arg
	50					55					60				
Tyr	Ala	Ser	Leu	Met	Ile	Pro	Arg	Leu	Cys	Ala	Leu	Leu	Val	Ala	Thr
65					70				75						80
Ser	Trp	Ser	Phe	Ala	Cys	Ile	Asn	Ala	Leu	Thr	His	Thr	Val	Leu	Leu
				85					90					95	
Thr	Gln	Leu	Ser	Phe	Cys	Ser	His	Asn	Glu	Ile	Pro	His	Phe	Phe	Cys
			100					105					110		
Asp	Leu	Ser	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Phe	Ile	Asn
		115					120					125			
Asp	Val	Leu	Val	Tyr	Thr	Val	Gly	Ala	Leu	Pro	Ile	Leu	Met	Pro	Phe
	130					135					140				
Val	Gly	Ile	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Phe	Ala	Ala	Val	Leu	Arg
145					150					155					160
Ile	Pro	Ser	Ala	Arg	Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser
				165					170					175	
His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ala	Val	Ile	Gly	Val	Tyr
			180					185					190		
Leu	Ser	Pro	Met	Ser	Tyr	His	Thr	Val	Glu	Lys	Asp	Thr	Ala	Ala	Ala
		195					200					205			
Val	Met	Tyr	Thr	Val	Val	Thr	Pro								
	210					215									

&lt;210&gt; 2513

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (p123-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2513

Phe	Val	Asp	Leu	Cys	Leu	Thr	Thr	Thr	Thr	Val	Pro	Lys	Met	Leu	Leu
1				5					10					15	
Asn	Ile	Gln	Thr	Gln	Lys	Lys	Thr	Ile	Ser	Tyr	Ala	Gly	Cys	Leu	Thr
			20					25					30		
Gln	Met	Tyr	Phe	Phe	Leu	Leu	Leu	Leu	Asp	Leu	Asp	Asn	Met	Ile	Leu
		35					40					45			
Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Cys	His	Pro	Leu	His
	50					55					60				
Tyr	Thr	Ser	Val	Met	Leu	Pro	Ser	Leu	Cys	Gly	Leu	Leu	Met	Ala	Val
65					70				75						80
Leu	Trp	Val	Val	Ala	Asn	Leu	Phe	Ser	Leu	Leu	Phe	Thr	Leu	Leu	Met
				85					90					95	
Ala	Gln	Leu	Ser	Phe	Cys	Gly	Asn	Asn	Thr	Ile	Pro	His	Phe	Phe	Cys
			100					105					110		
Asp	Leu	Ser	Val	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	His	Ile	Val
		115					120					125			

Glu Asn Leu Leu Leu Ile Val Ser Gly Leu Leu Gly Val Thr Pro Leu  
 130 135 140  
 Ile Cys Ile Leu Val Ser Tyr Ser Arg Ile Val Ala Thr Val Met Arg  
 145 150 155 160  
 Ile Pro Ser Ala Lys Gly Lys Arg Lys Thr Phe Ser Thr Cys Gly Ser  
 165 170 175  
 His Leu Thr Val Val Ala Leu Phe Tyr Cys Ala Gly Phe Gly Val Phe  
 180 185 190  
 Phe Thr Pro Pro Ser Ser His Ser Gly Gly Lys Asp Thr Ala Ala Ser  
 195 200 205  
 Val Met Tyr Thr Val Val Thr Pro  
 210 215

&lt;210&gt; 2514

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Unknown (3983377-dir-0-8 conceptual translation of range 1-666)

&lt;400&gt;2514

Ala Asn Leu Ser Ser Val Asp Ile Ser Ala Pro Ser Val Ile Val Pro  
 1 5 10 15  
 Lys Ala Leu Val Asn His Met Leu Gly Ser Lys Ser Ile Ser Tyr Thr  
 20 25 30  
 Gly Cys Met Thr Gln Ile Tyr Phe Phe Ile Thr Phe Asn Asn Met Asp  
 35 40 45  
 Gly Phe Leu Leu Ser Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 50 55 60  
 His Pro Leu His Tyr Thr Met Met Met Arg Pro Arg Leu Cys Val Leu  
 65 70 75 80  
 Leu Val Ala Ile Ser Trp Ala Ile Thr Asn Leu His Ala Leu Leu His  
 85 90 95  
 Thr Leu Leu Met Val Arg Leu Thr Phe Cys Ser His Asn Ala Val His  
 100 105 110  
 His Phe Phe Cys Asp Pro Tyr Pro Ile Leu Lys Leu Ser Cys Ser Asp  
 115 120 125  
 Thr Phe Ile Asn Asp Leu Met Val Phe Thr Ile Gly Gly Leu Val Phe  
 130 135 140  
 Met Thr Pro Phe Thr Cys Ile Ile Val Ser Tyr Ala Tyr Ile Phe Ser  
 145 150 155 160  
 Lys Val Leu Lys Leu Lys Ser Ala His Gly Ile Arg Lys Ala Leu Ser  
 165 170 175  
 Thr Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Ala Ile  
 180 185 190  
 Leu Gly Ile Tyr Met His Pro Ser Thr Tyr Thr Val Gln Asp Thr  
 195 200 205  
 Val Ala Thr Val Ile Phe Thr Val Val Thr Pro Met Val Asn  
 210 215 220

&lt;210&gt; 2515

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Unknown (902714-dir-0-6 conceptual translation of range 2-469)

&lt;400&gt;2515

Ile Cys His Pro Leu His Tyr Thr Val Met Met Arg Pro Arg Leu Cys  
 1 5 10 15  
 Val Leu Leu Val Ala Val Ser Trp Val Ile Thr Asn Leu His Ala Leu  
 20 25 30  
 Leu His Thr Leu Leu Met Val Gln Leu Thr Phe Cys Ser His Asn Ala  
 35 40 45  
 Val His His Phe Phe Cys Asp Pro Tyr Pro Ile Leu Lys Leu Ser Cys

50	55	60
Ser Asp Thr Phe Ile	Asn Asp Ile Thr Ala Phe	Thr Val Gly Gly Leu
65	70	75
Thr Ser Ile Thr Pro	Phe Thr Cys Ile Thr Val Ser Tyr Ala Tyr Ile	80
85	90	95
Leu Ser Ser Val Leu	Lys Phe Pro Ser Ile Gln Gly Ile Arg Lys Ala	110
100	105	115
Leu Ser Thr Cys Gly	Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly	125
115	120	125
Ala Ile Leu Gly Val	Tyr Met His Pro Ser Ser Thr Tyr Ser Leu Gln	140
130	135	140
Asp Thr Val Ala Thr	Ala Phe Phe Thr Val Val Thr	155
145	150	

&lt;210&gt; 2516

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (OST034-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2516

Phe Ala Asp Ile Ser	Ser Ile Ser Asn Ser Val Pro Lys Met Leu Val
1	5
Asn Ile Gln Thr Lys	Ser Gln Ser Ile Ser Tyr Glu Ser Cys Ile Thr
20	25
Gln Met Tyr Phe Ser	Ile Val Phe Val Val Ile Asp Asn Leu Leu Leu
35	40
Gly Thr Met Ala Tyr	Asp His Phe Val Ala Ile Cys His Pro Leu Asn
50	55
Tyr Thr Ile Leu Met	Arg Pro Arg Phe Gly Ile Leu Leu Thr Val Ile
65	70
Ser Trp Phe Leu Ser	Asn Ile Ile Ala Leu Thr His Thr Leu Leu Leu
85	90
Ile Gln Leu Leu Phe	Cys Asn His Asn Thr Leu Pro His Phe Phe Cys
100	105
Asp Leu Ala Pro Leu	Leu Lys Leu Ser Cys Ser Asp Thr Leu Ile Asn
115	120
Glu Leu Val Leu Phe	Ile Val Gly Leu Ser Val Ile Ile Phe Pro Phe
130	135
Thr Leu Ser Phe Phe	Ser Tyr Val Cys Ile Ile Arg Ala Val Leu Arg
145	150
Val Ser Ser Thr Gln	Gly Lys Trp Lys Ala Phe Ser Thr Cys Gly Ser
165	170
His Leu Thr Val Val	Leu Leu Phe Tyr Gly Thr Ile Val Gly Val Tyr
180	185
Phe Phe Pro Ser Ser	Thr His Pro Glu Asp Thr Asp Lys Ile Gly Ala
195	200
Val Leu Phe Thr Val	Val Thr Pro
210	215

&lt;210&gt; 2517

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Unknown (p156-dir-0-12 conceptual translation of range 34-1003)

&lt;400&gt;2517

Ser Glu Leu Leu Glu	Gly Gly Asn Gln Thr Ser Thr Phe Glu Phe Leu
1	5
Leu Trp Gly Leu Ser	Asp Gln Pro Gln Gln Gln His Ile Phe Phe Leu
20	25
Leu Phe Leu Trp Met	Tyr Val Val Thr Val Ala Gly Asn Leu Leu Ile
35	40
	45

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Val Leu Ala Ile Gly Thr Asp Thr His Leu His Thr Pro Met Tyr Phe
  50                      55                      60
Phe Leu Ala Ser Leu Ser Cys Ala Asp Ile Phe Phe Thr Ser Thr Thr
  65                      70                      75                      80
Val Pro Lys Ala Leu Val Asn Ile Gln Thr Gln Ser Arg Ser Ile Ser
                      85                      90                      95
Tyr Ala Gly Cys Leu Ala Gln Leu Tyr Phe Phe Gly Thr Ala Leu Leu
          100                      105                      110
Leu Leu Thr Phe Gly Asp Met Asp Ile Phe Leu Leu Ala Thr Met Ala
          115                      120                      125
Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu His Tyr Met Met Ile
          130                      135                      140
Met Ser Leu His Arg Cys Ala Leu Leu Val Thr Ala Cys Trp Thr Leu
          145                      150                      155                      160
Thr Ser Leu Val Ala Met Thr His Thr Phe Leu Ile Phe Arg Leu Ser
                      165                      170                      175
Phe Cys Ser Lys Ile Leu Pro Asp Phe Phe Cys Asp Leu Gly Pro Leu
          180                      185                      190
Met Lys Val Ser Cys Ser Asp Ala Gln Val Asn Glu Leu Val Leu Leu
          195                      200                      205
Phe Leu Gly Gly Ala Val Ile Leu Ile Pro Phe Met Leu Ile Leu Val
          210                      215                      220
Ser Tyr Ile Arg Ile Val Ser Ala Ile Leu Arg Ala Pro Ser Ala Gln
          225                      230                      235                      240
Gly Arg Cys Lys Ala Phe Ser Thr Cys Gly Ser His Leu Val Val Val
                      245                      250                      255
Ala Leu Phe Phe Gly Thr Val Ile Arg Ala Tyr Leu Cys Pro Ser Ser
          260                      265                      270
Ser Ser Ser Asn Ser Val Lys Glu Asp Thr Val Ala Ala Val Met Tyr
          275                      280                      285
Thr Val Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn
          290                      295                      300
Lys Asp Met Lys Ala Ala Val Val Arg Leu Leu Lys Gly Arg Val Ser
          305                      310                      315                      320
Leu Ser Gln

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&lt;210&gt; 2518

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Unknown (p38-dir-0-11 conceptual translation of range 34-993)

&lt;400&gt;2518

```

Ser Asp Leu Leu Glu Gly Gly Asn Gln Thr Ser Thr Phe Glu Phe Leu
  1                      5                      10                      15
Leu Ser Gly Leu Ser Asp Gln Pro Gln Gln Gln His Ile Leu Phe Leu
          20                      25                      30
Leu Phe Leu Trp Met Tyr Val Val Thr Val Ala Gly Asn Leu Leu Ile
          35                      40                      45
Val Leu Ala Ile Gly Thr Asp Thr His Leu His Thr Pro Met Tyr Phe
          50                      55                      60
Phe Leu Ala Ser Leu Ser Cys Ala Asp Ile Phe Phe Thr Ser Thr Thr
          65                      70                      75                      80
Val Pro Lys Ala Leu Val Asn Ile Gln Thr Gln Ser Arg Ser Ile Ser
          85                      90                      95
Tyr Ala Gly Cys Leu Ala Gln Leu Tyr Phe Phe Leu Thr Phe Gly Asp
          100                      105                      110
Met Asp Ile Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Met Ala
          115                      120                      125
Ile Cys His Pro Leu His Tyr Met Met Ile Met Ser Leu His Arg Cys
          130                      135                      140

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Ala Leu Leu Val Thr Ala Cys Trp Thr Leu Thr Ser Leu Val Ala Met
145          150          155          160
Thr His Thr Phe Leu Ile Phe Arg Leu Ser Phe Cys Ser Lys Ile Ile
          165          170          175
Pro Asp Phe Phe Cys Asp Leu Gly Pro Leu Met Lys Val Ser Cys Ser
          180          185          190
Asp Thr Gln Val Ser Glu Leu Val Leu Leu Phe Leu Gly Gly Ala Val
          195          200          205
Ile Leu Ile Pro Phe Met Leu Ile Leu Val Ser Tyr Ile Arg Ile Val
          210          215          220
Ser Ala Ile Leu Arg Ala Pro Ser Ala Gln Gly Arg Arg Lys Ala Phe
225          230          235          240
Ser Thr Cys Gly Ser His Leu Val Val Val Ala Leu Phe Phe Gly Thr
          245          250          255
Val Ile Arg Ala Tyr Leu Cys Pro Ser Ser Ser Ser Ser Asn Ser Val
          260          265          270
Asp Glu Asp Thr Ala Ala Ala Val Met Tyr Thr Val Val Thr Pro Leu
          275          280          285
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Ala Ala
          290          295          300
Val Val Arg Leu Leu Lys Gly Arg Val Ser Phe Ser Gln Gly Gln Gly
305          310          315          320

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&lt;210&gt; 2519

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (p27-dir-0-11 conceptual translation of range 34-984)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(317)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2519

```

Ser Glu Leu Leu Glu Gly Gly Asn Gln Thr Ser Thr Phe Glu Phe Leu
1          5          10          15
Leu Trp Gly Leu Ser Asp Gln Pro Gln Gln Gln His Ile Phe Phe Leu
          20          25          30
Leu Phe Leu Trp Met Tyr Val Val Thr Val Ala Gly Asn Leu Leu Ile
          35          40          45
Val Leu Ala Ile Gly Thr Asp Thr His Leu His Thr Pro Met Tyr Phe
          50          55          60
Phe Leu Ala Ser Leu Ser Cys Ala Asp Ile Phe Ser Thr Ser Thr Thr
65          70          75          80
Val Pro Lys Ala Leu Val Asn Ile Gln Thr Gln Ser Arg Ser Ile Ser
          85          90          95
Tyr Ala Gly Cys Leu Ala Gln Leu Tyr Phe Phe Leu Thr Phe Gly Asp
          100          105          110
Met Asp Ile Phe Leu Pro Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala
          115          120          125
Ile Cys His Leu Leu His Tyr Met Met Ile Met Ser Leu His Arg Cys
          130          135          140
Ala Phe Leu Val Thr Ala Cys Trp Thr Leu Thr Ser Leu Leu Ala Met
145          150          155          160
Thr Arg Thr Phe Leu Ile Phe Arg Leu Ser Leu Cys Ser Xaa Ile Leu
          165          170          175
Pro Gly Phe Phe Cys Asp Leu Gly Pro Leu Met Lys Val Ser Cys Ser
          180          185          190
Asp Ala Gln Val Asn Glu Leu Val Leu Leu Phe Leu Gly Gly Ala Val
          195          200          205
Ile Leu Ile Pro Phe Met Leu Ile Leu Val Ser Tyr Ile Arg Ile Val

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210	215	220
Ser Ala Ile Leu Arg	Ala Pro Ser Ala Gln Gly Arg Arg Lys Ala Phe	
225	230	235
Ser Thr Cys Asp	Ser His Leu Val Val Val Ala Leu Phe Phe Gly Thr	240
	245	250
Val Ile Arg Ala Tyr	Leu Cys Pro Ser Ser Ser Ser Ser Asn Ser Val	255
	260	265
Lys Glu Asp Thr	Ala Ala Ala Val Met Tyr Thr Val Val Thr Pro Leu	270
	275	280
Leu Asn Pro Phe Ile Tyr	Ser Met Arg Asn Lys Asp Met Lys Ala Ala	285
	290	295
Val Val Arg Leu Leu Lys	Gly Arg Val Ser Phe Ser Gln	300
305	310	315

&lt;210&gt; 2520

&lt;211&gt; 242

&lt;212&gt; PRT

&lt;213&gt; Unknown (p80-dir-0-9 conceptual translation of range 5-731)

&lt;400&gt;2520

Thr Asp Ile Phe Phe Thr Ser Thr Thr Val Pro Lys Ala Leu Val Asn	
1	5
Ile Gln Thr Gln Ser Thr Ser Ile Ser Tyr Ala Gly Cys Leu Ala Gln	10
	15
Leu Tyr Phe Phe Leu Thr Phe Gly Asp Met Asp Ile Phe Leu Leu Ala	20
	25
Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu His Tyr	30
	35
Met Met Ile Met Ser Leu Arg Arg Cys Ala Val Leu Val Ala Ala Cys	40
	45
Trp Thr Leu Thr Ser Leu Val Ala Met Thr His Thr Phe Leu Ile Ser	50
	55
Gln Leu Ser Phe Cys Ser Lys Ile Ile Pro Asp Phe Phe Cys Asp Leu	60
	65
Gly Pro Leu Met Lys Val Ser Cys Phe Asp Thr Gln Val Asn Glu Leu	70
	75
Val Leu Leu Phe Leu Gly Gly Thr Val Ile Leu Ile Pro Phe Met Leu	80
	85
Val Leu Val Ser Tyr Ile Gln Ile Val Ser Ala Ile Leu Arg Ala Pro	90
	95
Ser Ala Gln Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu	100
	105
Val Val Val Ala Leu Phe Phe Gly Thr Val Ile Arg Ala Tyr Leu Cys	110
	115
Pro Ser Ser Ser Ser Ser Ser Ser Val Glu Glu Asp Thr Ala Ala Ala	120
	125
Val Met Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr Ser	130
	135
Leu Arg Asn Lys Asp Met Lys Ala Ala Val Val Arg Leu Leu Lys Gly	140
	145
Arg Val	150

&lt;210&gt; 2521

&lt;211&gt; 225

&lt;212&gt; PRT

&lt;213&gt; Unknown (3983403-dir-0-8 conceptual translation of range 1-675)

&lt;400&gt;2521

Ala Thr Leu Ser Cys Val Asp Ile Leu Phe Thr Ser Thr Thr Val Pro
1
5
10
15

Lys Ala Leu Val Asn Ile His Thr Gln Ser Arg Thr Ile Ser Tyr Ala  
 20 25 30  
 Gly Cys Leu Val Gln Leu Tyr Phe Phe Leu Thr Phe Gly Asp Met Asp  
 35 40 45  
 Ile Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Phe Val Ala Ile Cys  
 50 55 60  
 His Pro Leu His Tyr Arg Met Ile Met Ser Phe Gln Arg Cys Ser Leu  
 65 70 75 80  
 Leu Val Thr Val Cys Trp Thr Leu Thr Thr Val Val Ala Met Thr His  
 85 90 95  
 Thr Phe Leu Ile Phe Arg Leu Ser Phe Cys Ser Gln Lys Val Ile Pro  
 100 105 110  
 Asp Phe Phe Cys Asp Leu Gly Pro Leu Met Lys Ile Ala Cys Ser Glu  
 115 120 125  
 Thr Arg Ile Asn Glu Leu Val Leu Leu Phe Leu Gly Gly Ala Val Ile  
 130 135 140  
 Leu Ile Pro Phe Leu Leu Ile Leu Met Ser Tyr Ile Arg Ile Val Ser  
 145 150 155 160  
 Ala Ile Leu Arg Val Pro Ser Ala Gln Gly Arg Arg Lys Ala Phe Ser  
 165 170 175  
 Thr Cys Gly Ser His Leu Ser Val Val Ala Leu Phe Phe Gly Thr Val  
 180 185 190  
 Ile Arg Ala Tyr Leu Cys Pro Ser Ser Ser Ser Ser Asn Ser Val Val  
 195 200 205  
 Glu Asp Thr Ala Ala Ala Val Met Tyr Thr Val Val Thr Pro Val Leu  
 210 215 220  
 Asn  
 225

&lt;210&gt; 2522

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (p144-dir-0-8 conceptual translation of range 5-654)

&lt;400&gt;2522

Asp Asp Ile Leu Leu Val Ser Thr Ile Val Pro Lys Ala Leu Val Asn  
 1 5 10 15  
 Ile His Thr Gln Ser Arg Thr Ile Ser Tyr Ala Gly Cys Leu Val Gln  
 20 25 30  
 Leu Tyr Phe Phe Leu Thr Phe Gly Asp Met Asp Ile Phe Leu Leu Ala  
 35 40 45  
 Thr Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu His Tyr  
 50 55 60  
 Arg Met Ile Met Ser Phe Gln Arg Cys Ser Leu Leu Val Thr Val Cys  
 65 70 75 80  
 Trp Ile Leu Thr Thr Val Val Ala Met Thr His Thr Phe Leu Ile Phe  
 85 90 95  
 Trp Phe Ser Phe Tyr Ser Lys Lys Val Ile Pro Gly Phe Phe Cys Asp  
 100 105 110  
 Leu Glu Pro Leu Ile Lys Ile Pro Cys Ser Glu Thr Arg Ile Asn Glu  
 115 120 125  
 Leu Val Leu Leu Phe Leu Gly Ser Ala Val Val Phe Ile Leu Leu Leu  
 130 135 140  
 Leu Ile Leu Val Ser Tyr Ile Gln Ile Val Ser Ala Ile Phe Arg Val  
 145 150 155 160  
 Pro Ser Ala Gln Gly Arg His Lys Ala Phe Ser Thr Cys Gly Ser His  
 165 170 175  
 Leu Ser Val Val Ala Leu Phe Phe Gly Thr Val Ile Arg Ala Tyr Leu  
 180 185 190  
 Cys Pro Ser Ser Ser Ser Ser Asn Ser Val Val Glu Asp Thr Ala Ala  
 195 200 205

Ala Val Met Tyr Thr Val Val Thr Pro  
210 215

<210> 2523

<211> 215

<212> PRT

<213> Unknown (p111-dir-0-8 conceptual translation of range 2-646)

<220>

<221> VARIANT

<222> (1)...(215)

<223> Xaa = Any Amino Acid

<400>2523

Val	Val	Asp	Val	Cys	Phe	Ser	Ser	Thr	Thr	Val	Pro	Lys	Met	Leu	Ala
1				5					10					15	
Asp	Met	Gln	Thr	Gly	Ser	His	Thr	Ile	Ser	Gln	Ala	Asp	Cys	Leu	Ser
			20					25					30		
Gln	Val	Tyr	Phe	Ser	Ile	Leu	Phe	Gly	Asp	Leu	Asp	Asp	Phe	Leu	Leu
		35					40					45			
Ala	Val	Met	Ser	Phe	Asp	Xaa	Tyr	Met	Ala	Ile	Cys	Arg	Pro	Leu	Cys
		50				55					60				
Tyr	Ala	Thr	Ala	Met	Ser	Ser	Gln	Cys	Cys	Val	Leu	Leu	Val	Ala	Thr
65					70					75					80
Cys	Trp	Val	Ile	Ala	Gln	Leu	Asn	Ser	Leu	Leu	His	Thr	Val	Leu	Leu
			85						90					95	
Ala	Gln	Leu	Thr	Phe	Cys	Ala	Asp	His	Thr	Ile	Pro	His	Phe	Phe	Cys
			100					105					110		
Asp	Leu	Ala	Leu	Leu	Leu	Pro	Leu	Ser	Cys	Ser	Asp	Thr	Ser	Ile	Asn
		115					120					125			
Glu	Leu	Val	Leu	Met	Ser	Met	Gly	Gly	Ala	Gly	Ile	Leu	Ile	Pro	Leu
		130				135					140				
Met	Cys	Ile	Leu	Gly	Ser	Tyr	Ala	Gln	Ile	Ile	Ser	Ala	Ile	Leu	Arg
145					150					155					160
Met	Pro	Ser	Ala	Gly	Ser	Lys	Arg	Ile	Ala	Phe	Ser	Thr	Ser	Ser	Ser
			165						170					175	
His	Leu	Ala	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val	Ile	Ser	Glu	Tyr
			180					185					190		
Leu	Cys	Pro	Ser	Pro	Ser	Gly	Ser	Ser	Asp	Glu	Ser	Ser	Leu	Ala	Ala
		195					200					205			
Val	Leu	Tyr	Ala	Val	Val	Thr									
		210				215									

<210> 2524

<211> 216

<212> PRT

<213> Unknown (2921629-dir-0-8 conceptual translation of range 2-649)

<400>2524

Phe	Val	Asp	Met	Gly	Leu	Thr	Ser	Ser	Thr	Val	Thr	Lys	Met	Leu	Val
1				5					10					15	
Asn	Ile	Gln	Thr	Arg	His	His	Thr	Ile	Thr	Tyr	Thr	Gly	Cys	Leu	Thr
			20					25					30		
Gln	Met	Tyr	Phe	Phe	Leu	Met	Phe	Gly	Asp	Leu	Asp	Ser	Phe	Phe	Leu
		35					40					45			
Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Cys
		50				55					60				
Tyr	Ser	Thr	Val	Met	Arg	Pro	Gln	Val	Cys	Ala	Leu	Met	Leu	Ala	Leu
65					70					75					80
Cys	Trp	Val	Leu	Thr	Asn	Ile	Val	Ala	Leu	Thr	His	Thr	Phe	Leu	Met
			85						90					95	

Ala	Arg	Leu	Ser	Phe	Cys	Val	Thr	Gly	Glu	Ile	Ala	His	Phe	Phe	Cys
			100					105					110		
Asp	Ile	Thr	Pro	Val	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	His	Ile	Asn
		115					120					125			
Glu	Met	Met	Val	Phe	Val	Leu	Gly	Gly	Thr	Val	Leu	Ile	Val	Pro	Phe
		130				135					140				
Leu	Cys	Ile	Val	Thr	Ser	Tyr	Ile	His	Ile	Val	Pro	Ala	Ile	Leu	Arg
145					150					155					160
Val	Arg	Thr	Arg	Gly	Gly	Val	Gly	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
			165					170					175		
His	Leu	Cys	Val	Val	Cys	Val	Phe	Tyr	Gly	Thr	Leu	Phe	Ser	Ala	Tyr
		180					185					190			
Leu	Cys	Pro	Pro	Ser	Ile	Ala	Ser	Glu	Glu	Lys	Asp	Ile	Ala	Ala	Ala
		195					200					205			
Ala	Met	Tyr	Thr	Ile	Val	Thr	Pro								
	210					215									

&lt;210&gt; 2525

&lt;211&gt; 342

&lt;212&gt; PRT

&lt;213&gt; Unknown (1256388-dir-2-13 conceptual translation of range 379-1402)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(342)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2525

Phe	Xaa	Leu	Ser	Phe	Leu	Asn	Tyr	Arg	Cys	Ser	Ile	Arg	Met	Glu	Asn
1				5				10						15	
Gln	Ser	Ser	Val	Ser	Glu	Phe	Phe	Leu	Arg	Gly	Ile	Ser	Gly	Phe	Pro
			20					25					30		
Glu	Gln	Gln	Gln	Leu	Leu	Tyr	Gly	Leu	Phe	Leu	Cys	Met	Tyr	Leu	Val
		35				40					45				
Thr	Leu	Thr	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala	Ile	Gly	Ser	Asp	Pro
	50			55							60				
His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn	Leu	Ser	Phe	Ala
65				70					75					80	
Asp	Met	Gly	Leu	Ile	Ser	Ser	Thr	Val	Thr	Lys	Met	Leu	Phe	Asn	Val
			85					90					95		
Gln	Thr	Gln	Cys	His	Thr	Ile	Ser	Tyr	Thr	Gly	Cys	Leu	Thr	Gln	Met
		100						105					110		
Tyr	Leu	Phe	Met	Met	Phe	Gly	Asp	Leu	Asp	Ser	Phe	Phe	Leu	Ala	Val
	115					120					125				
Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Ser
	130				135						140				
Thr	Ile	Met	Asn	Ala	Arg	Ile	Cys	Val	Leu	Met	Leu	Ile	Leu	Cys	Trp
145				150						155					160
Ile	Leu	Thr	Asn	Val	Val	Ala	Leu	Thr	His	Thr	Leu	Leu	Met	Ala	Arg
			165					170					175		
Leu	Ser	Phe	Cys	Val	Val	Gly	Glu	Ile	Ala	His	Phe	Phe	Cys	Asp	Val
		180						185					190		
Thr	Ser	Val	Met	Lys	Leu	Ser	Cys	Ser	Asp	Thr	His	Val	Asn	Glu	Leu
		195					200					205			
Val	Leu	Ser	Gly	Phe	Gly	Gly	Thr	Val	Leu	Met	Val	Pro	Phe	Val	Ser
	210					215					220				
Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Val	Phe	Ala	Val	Leu	Arg	Ile	Gln
225					230					235					240
Ser	Ser	Gly	Gly	Ser	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu
				245					250					255	
Cys	Val	Val	Cys	Val	Phe	Tyr	Gly	Thr	Leu	Phe	Ser	Val	Tyr	Leu	Phe



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Asp Leu Thr Pro Leu Leu Arg Leu Ser Cys Thr Asp Thr Ser Val Asn
65          70          75          80
Lys Ile Phe Val Leu Ile Val Ala Gly Met Val Ile Ala Thr Pro Phe
          85          90          95
Ile Cys Ile Leu Ala Ser Tyr Val Arg Ile Ile Val Ala Ile Met Lys
          100         105         110
Val Pro Ser Ala Gly Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser Ser
          115         120         125
His Leu Ser Val Val Ala Leu Phe Tyr Gly Thr Thr Ile Gly Val Tyr
          130         135         140
Leu Cys Pro Ser Ser Val Arg Thr Ala Val Lys Glu Lys Ala Ser Ala
145         150         155         160
Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Cys Ser
          165         170         175

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&lt;210&gt; 2528

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Unknown (3273644-dir-0-7 conceptual translation of range 4-528)

&lt;400&gt;2528

```

Ala Leu Glu Tyr Asp Arg Phe Leu Ala Ile Cys His Pro Leu His Tyr
1          5          10          15
Thr Thr Ile Met Ser Pro Gln Leu Cys Gly Leu Leu Ala Gly Gly Leu
          20          25          30
Trp Met Leu Ser Cys Phe Ile Ser Leu Thr His Ile Leu Leu Met Ala
          35          40          45
Arg Leu Val Phe Cys Gly Asn Asn Lys Ile Pro His Tyr Phe Cys Asp
          50          55          60
Leu Thr Pro Leu Leu Arg Leu Ser Cys Thr Asp Thr Ser Val Asn Lys
65          70          75          80
Ile Phe Val Leu Ile Val Ala Gly Met Val Ile Ala Thr Pro Phe Ile
          85          90          95
Cys Ile Leu Ala Ser Tyr Val Arg Ile Ile Val Ala Ile Met Lys Val
          100         105         110
Pro Ser Ala Gly Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser Ser His
          115         120         125
Leu Ser Val Val Ala Leu Phe Tyr Gly Thr Thr Ile Gly Val Tyr Leu
          130         135         140
Cys Pro Ser Ser Val Arg Thr Ala Val Lys Glu Lys Ala Ser Ala Val
145         150         155         160
Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe Ile Cys Ser
          165         170         175

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&lt;210&gt; 2529

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Unknown (3273656-dir-0-6 conceptual translation of range 4-477)

&lt;400&gt;2529

```

Ala Leu Glu Tyr Asp Arg Phe Leu Ala Ile Cys His Pro Leu His Tyr
1          5          10          15
Thr Thr Thr Met Ser Pro Gln Leu Cys Gly Leu Leu Ala Gly Gly Leu
          20          25          30
Trp Met Leu Ser Cys Phe Ile Ser Leu Thr His Ile Leu Leu Met Ala
          35          40          45
Arg Leu Val Phe Cys Gly Asn Asn Lys Ile Pro His Tyr Phe Cys Asp
          50          55          60
Leu Thr Pro Leu Leu Arg Leu Ser Cys Thr Asp Thr Ser Val Asn Lys
65          70          75          80
Ile Phe Val Leu Ile Val Ala Gly Met Val Ile Ala Thr Pro Phe Ile

```



Thr Thr Ile Gly Val Tyr Leu Cys Pro Ser Ser Val Arg Thr Ala Val  
 130 135 140  
 Lys Glu Lys Ala Ser Ala Val Met Tyr Thr Ala Val Thr  
 145 150 155

<210> 2532

<211> 313

<212> PRT

<213> Unknown (p82-dir-0-11 conceptual translation of range 1-939)

<400>2532

Met Glu Pro Arg Asn Gln Thr Ser Ala Ser Gln Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Lys Pro Glu Gln Glu Thr Leu Leu Phe Ser Leu Phe Phe  
 20 25 30  
 Cys Met Tyr Leu Val Met Val Val Gly Asn Leu Leu Ile Leu Ala  
 35 40 45  
 Ile Ser Ile Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Leu Val Asp Phe Cys Leu Ala Thr Asn Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Ser Leu Gln Thr Gly Ser Lys Ala Ile Ser Tyr Pro Cys  
 85 90 95  
 Cys Leu Ile Gln Met Tyr Phe Phe His Phe Phe Gly Ile Val Asp Ser  
 100 105 110  
 Val Ile Ile Ala Met Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Ala Lys Ile Met Ser Leu Arg Leu Cys Arg Leu Leu  
 130 135 140  
 Val Gly Ala Leu Trp Ala Phe Ser Cys Phe Ile Ser Leu Thr His Ile  
 145 150 155 160  
 Leu Leu Met Ala Arg Leu Val Phe Cys Gly Ser His Glu Val Pro His  
 165 170 175  
 Tyr Phe Cys Asp Leu Thr Pro Ile Leu Arg Leu Ser Cys Thr Asp Thr  
 180 185 190  
 Ser Val Asn Arg Ile Phe Ile Leu Ile Val Ala Gly Met Val Ile Ala  
 195 200 205  
 Thr Pro Phe Val Cys Ile Leu Ala Ser Tyr Ala Arg Ile Leu Val Ala  
 210 215 220  
 Ile Met Lys Val Pro Ser Ala Gly Gly Arg Lys Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Leu Ser Val Val Ala Leu Phe Tyr Gly Thr Thr Ile  
 245 250 255  
 Gly Val Tyr Leu Cys Pro Ser Ser Val Leu Thr Thr Val Lys Glu Lys  
 260 265 270  
 Ala Ser Ala Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Leu Lys Gly Ala Leu Arg Lys Leu  
 290 295 300  
 Val Asn Arg Lys Ile Thr Ser Ser Ser  
 305 310

<210> 2533

<211> 157

<212> PRT

<213> Unknown (902331-dir-0-6 conceptual translation of range 2-472)

<400>2533

Ile Cys His Pro Leu His Tyr Thr Ala Arg Met Asn Leu Cys Leu Cys  
 1 5 10 15  
 Val Gln Leu Val Ala Gly Leu Trp Leu Val Thr Tyr Leu His Ala Leu



```

      20      25      30
Leu His Thr Val Leu Ile Ala Gln Leu Ser Phe Cys Ala Ser Asn Ile
      35      40      45
Ile His His Phe Leu Cys Asp Leu Asn Pro Leu Leu Gln Leu Ser Cys
      50      55      60
Ser Asp Val Ser Phe Asn Val Met Ile Ile Phe Ala Val Gly Asp Leu
      65      70      75      80
Leu Ala Leu Thr Pro Leu Val Cys Ile Leu Val Ser Tyr Gly Leu Ile
      85      90      95
Phe Ser Thr Val Leu Lys Ile Thr Ser Thr Gln Gly Lys Gln Arg Ala
      100      105      110
Val Ser Thr Cys Ser Cys His Leu Ser Val Val Val Leu Phe Tyr Gly
      115      120      125
Thr Ala Ile Ala Val Tyr Phe Ser Pro Ser Ser Pro His Met Pro Glu
      130      135      140
Ser Asp Thr Leu Ser Thr Ile Met Tyr Ser Met Val Ala
      145      150      155

```

&lt;210&gt; 2534

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (p152-rev-0-8 conceptual translation of range 2-652)

&lt;400&gt;2534

```

Phe Leu Asp Ile Gly Phe Ile Ser Thr Ile Ile Pro Lys Met Leu Asp
1      5      10      15
His Ile Ser Ser Gly Ile Lys Leu Ile Ser Tyr Gly Glu Cys Leu Thr
      20      25      30
Gln Leu Tyr Phe Ser Gly Leu Phe Ala Asp Leu Asp Asn Asn Phe Leu
      35      40      45
Leu Ala Val Met Ala Leu Asp Arg Tyr Val Ala Ile Ser His Pro Leu
      50      55      60
His Tyr Ala Leu Thr Met Asn Ser Gln Arg Cys Val Leu Leu Val Ala
      65      70      75      80
Val Ser Trp Val Ile Thr Ile Leu His Ala Leu Val His Thr Leu Leu
      85      90      95
Val Thr Arg Leu Ser Phe Cys Gly Pro Asn Ile Ile Pro His Phe Phe
      100      105      110
Cys Asp Leu Val Pro Leu Leu Lys Leu Ala Cys Ser Ser Thr Cys Val
      115      120      125
Asn Asp Leu Val Leu Ile Leu Val Ala Gly Thr Leu Leu Ile Ala Pro
      130      135      140
Phe Val Cys Ile Leu Met Ser Tyr Phe Tyr Ile Ala Leu Ala Ile Leu
      145      150      155      160
Arg Ile Asp Ser Pro Arg Gly Lys Gln Arg Ala Phe Ser Ser Cys Thr
      165      170      175
Ser His Leu Ser Val Val Ser Leu Phe Tyr Ser Thr Ala Ile Gly Val
      180      185      190
Tyr Leu Cys Pro Pro Ser Ser His Ser Asp Gly Lys Asp Arg Val Phe
      195      200      205
Ser Val Met Tyr Thr Val Val Thr Pro
      210      215

```

&lt;210&gt; 2535

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Unknown (902317-dir-0-6 conceptual translation of range 5-472)

&lt;400&gt;2535

```

Cys His Pro Phe His Tyr Thr Met Ile Leu Thr Arg Met Leu Cys Val
1      5      10      15

```

```

Lys Met Val Val Met Cys His Ala Leu Ser His Leu His Ala Met Leu
      20      25      30
His Thr Phe Leu Met Gly Gln Leu Ile Phe Cys Ala Asp Asn Arg Ile
      35      40      45
Pro His Phe Phe Cys Asp Leu Tyr Ala Leu Met Lys Ile Ser Cys Thr
      50      55      60
Ser Thr Tyr Leu Asn Thr Leu Met Ile His Thr Glu Gly Ala Val Val
      65      70      75      80
Ile Ser Gly Ala Leu Ala Phe Ile Thr Ala Ser Tyr Ala Cys Ile Ile
      85      90      95
Leu Val Val Leu Arg Ile Pro Ser Ala Lys Gly Arg Trp Lys Thr Phe
      100      105      110
Ser Thr Cys Gly Ser His Leu Thr Val Val Ala Ile Phe Tyr Gly Thr
      115      120      125
Leu Ser Trp Val Tyr Phe Arg Pro Leu Ser Ser Tyr Ser Val Thr Lys
      130      135      140
Gly Arg Ile Ile Thr Val Val Tyr Thr Val Val Thr
      145      150      155

```

&lt;210&gt; 2536

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (OST226-dir-0-8 conceptual translation of range 2-646)

&lt;400&gt;2536

```

Leu Thr Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys Met Leu Gln
  1      5      10      15
Ile Ile Phe Ser Pro Thr Lys Val Ile Ser Tyr Thr Gly Cys Leu Ala
      20      25      30
Gln Thr Tyr Ser Ser Leu Leu Arg Arg His Glu Asn Phe Ile Leu Ala
      35      40      45
Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys His Pro Phe His Tyr
      50      55      60
Thr Met Ile Leu Thr Arg Met Leu Cys Val Lys Met Val Val Met Cys
      65      70      75      80
His Ala Leu Ser His Leu His Ala Met Leu His Thr Phe Leu Met Gly
      85      90      95
Gln Leu Ile Phe Cys Ala Asp Asn Arg Ile Pro His Phe Phe Cys Asp
      100      105      110
Leu Tyr Ala Leu Met Lys Ile Ser Cys Thr Ser Thr Tyr Leu Asn Thr
      115      120      125
Leu Met Ile His Thr Glu Gly Ala Val Val Ile Ser Gly Ala Leu Ala
      130      135      140
Phe Ile Thr Ala Ser Tyr Ala Cys Ile Ile Leu Val Val Leu Arg Ile
      145      150      155      160
Pro Ser Ala Lys Gly Arg Trp Lys Thr Phe Ser Thr Arg Gly Ser His
      165      170      175
Leu Thr Val Val Ala Ile Phe Tyr Gly Thr Leu Ser Trp Val Tyr Phe
      180      185      190
Arg Pro Leu Ser Ser Tyr Ser Val Thr Lys Gly Arg Ile Ile Thr Val
      195      200      205
Val Tyr Thr Val Val Thr Pro
      210      215

```

&lt;210&gt; 2537

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Unknown (4190944-dir-20-13 conceptual translation of range 2175-3131)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(319)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2537

Gln Gln Met Asp Asn Ser Asn Trp Thr Ser Val Ser His Phe Val Leu  
 1 5 10 15  
 Leu Gly Ile Ser Thr His Pro Glu Glu Gln Ile Pro Leu Phe Leu Val  
 20 25 30  
 Phe Ser Leu Met Tyr Ala Ile Asn Ile Ser Gly Asn Leu Ala Ile Ile  
 35 40 45  
 Thr Leu Ile Leu Ser Ala Pro Arg Leu His Ile Pro Met Tyr Ile Phe  
 50 55 60  
 Leu Ser Asn Leu Ala Leu Thr Asp Ile Cys Phe Thr Ser Thr Thr Val  
 65 70 75 80  
 Pro Lys Met Leu Gln Ile Ile Phe Ser Pro Thr Lys Val Ile Ser Tyr  
 85 90 95  
 Thr Gly Cys Leu Ala Gln Thr Tyr Phe Phe Ile Cys Phe Ala Val Met  
 100 105 110  
 Glu Asn Phe Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile  
 115 120 125  
 Cys His Pro Phe His Tyr Thr Met Ile Leu Thr Arg Met Leu Cys Val  
 130 135 140  
 Lys Met Val Val Met Cys His Ala Leu Ser His Leu His Ala Met Leu  
 145 150 155 160  
 His Thr Phe Leu Ile Gly Gln Leu Ile Phe Cys Ala Asp Asn Arg Ile  
 165 170 175  
 Pro His Phe Phe Cys Asp Leu Tyr Ala Leu Met Lys Ile Ser Cys Thr  
 180 185 190  
 Ser Thr Tyr Leu Asn Thr Leu Met Ile His Thr Glu Gly Ala Val Val  
 195 200 205  
 Ile Ser Gly Ala Leu Ala Phe Ile Thr Ala Ser Tyr Ala Cys Ile Ile  
 210 215 220  
 Leu Val Val Leu Arg Ile Pro Ser Ala Lys Gly Arg Trp Lys Thr Phe  
 225 230 235 240  
 Ser Thr Cys Gly Ser His Leu Thr Val Val Ala Ile Phe Tyr Gly Thr  
 245 250 255  
 Leu Ser Trp Val Tyr Phe Arg Pro Leu Ser Ser Tyr Ser Val Thr Lys  
 260 265 270  
 Gly Arg Ile Ile Thr Val Val Tyr Thr Val Val Thr Pro Met Leu Asn  
 275 280 285  
 Pro Phe Ile Tyr Ser Leu Arg Asn Gly Asp Val Lys Gly Gly Phe Met  
 290 295 300  
 Lys Trp Met Ser Arg Met Gln Thr Phe Phe Phe Arg Xaa Asn Pro  
 305 310 315

&lt;210&gt; 2538

&lt;211&gt; 326

&lt;212&gt; PRT

&lt;213&gt; Unknown (4190944-dir-490-12 conceptual translation of range 49118-50095)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(326)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2538

Ile Cys Tyr Ser Val Ser Leu Ser Leu Gly Glu Pro Thr Thr Met Gly  
 1 5 10 15  
 Arg Asn Asn Leu Thr Arg Pro Ser Glu Phe Ile Leu Leu Gly Leu Ser  
 20 25 30

```

Ser Arg Pro Glu Asp Gln Lys Pro Leu Phe Ala Val Phe Leu Pro Ile
      35              40              45
Tyr Leu Ile Thr Val Ile Gly Asn Leu Leu Ile Ile Leu Ala Ile Arg
      50              55              60
Ser Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser Ile Leu
65      70              75              80
Ser Phe Val Asp Ile Cys Tyr Val Thr Val Ile Ile Pro Lys Met Leu
      85              90              95
Val Asn Phe Leu Ser Glu Thr Lys Thr Ile Ser Tyr Gly Glu Cys Leu
      100             105             110
Thr Gln Met Tyr Phe Phe Leu Ala Phe Gly Asn Thr Asp Ser Tyr Leu
      115             120             125
Leu Ala Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn Pro Phe
      130             135             140
His Tyr Ile Thr Ile Met Ser His Arg Cys Cys Val Leu Leu Leu Val
145      150             155             160
Leu Ser Phe Cys Ile Pro His Phe His Ser Leu Leu His Ile Leu Leu
      165             170             175
Thr Asn Gln Leu Ile Phe Cys Ala Ser Asn Val Ile His His Phe Phe
      180             185             190
Cys Asp Asp Gln Pro Val Leu Lys Leu Ser Cys Ser Ser His Phe Val
      195             200             205
Lys Glu Ile Thr Val Met Thr Glu Gly Leu Ala Val Ile Met Thr Pro
      210             215             220
Phe Ser Cys Ile Ile Ile Ser Tyr Leu Arg Ile Leu Ile Thr Val Leu
225      230             235             240
Lys Ile Pro Ser Ala Ala Gly Lys Arg Lys Ala Phe Ser Thr Cys Gly
      245             250             255
Ser His Leu Thr Val Val Thr Leu Phe Tyr Gly Ser Ile Ser Tyr Val
      260             265             270
Tyr Phe Gln Pro Leu Ser Asn Tyr Thr Val Lys Asp Gln Ile Ala Thr
      275             280             285
Ile Ile Tyr Thr Val Leu Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser
      290             295             300
Leu Arg Asn Lys Asp Met Lys Gln Gly Leu Ala Lys Leu Met His Arg
305      310             315             320
Met Lys Cys Gln Xaa Lys
      325

```

&lt;210&gt; 2539

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Unknown (hg23-dir-0-8 conceptual translation of range 4-645)

&lt;400&gt;2539

```

Val Asp Ile Cys Tyr Val Thr Val Ile Ile Pro Lys Met Leu Val Asn
  1              5              10              15
Phe Leu Ser Glu Thr Lys Thr Ile Ser Tyr Ser Glu Cys Leu Thr Gln
      20              25              30
Met Tyr Phe Phe Leu Ala Cys Gly Asn Thr Asp Ser Tyr Leu Leu Ala
      35              40              45
Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn Pro Phe His Tyr
      50              55              60
Ile Thr Ile Met Ser His Arg Cys Cys Val Leu Leu Leu Val Leu Ser
65      70              75              80
Phe Cys Ile Pro His Leu His Ser Leu Leu His Ile Leu Leu Thr Asn
      85              90              95
Gln Val Ile Phe Cys Ala Ser Asn Val Ile His His Phe Phe Cys Asp
      100             105             110
Asp Gln Pro Val Leu Lys Leu Ser Cys Ser Ser His Phe Val Lys Glu
115      120             125

```

Ile Thr Val Met Thr Glu Gly Leu Ala Val Ile Met Thr Pro Phe Ser  
 130 135 140  
 Cys Ile Ile Ile Ser Tyr Leu Arg Ile Leu Ile Thr Val Leu Lys Ile  
 145 150 155 160  
 Pro Ser Ala Ala Gly Lys Arg Lys Ala Phe Ser Thr Cys Gly Ser His  
 165 170 175  
 Leu Thr Val Val Thr Leu Phe Tyr Gly Ser Ile Ser Tyr Leu Tyr Phe  
 180 185 190  
 Gln Pro Leu Ser Asn Tyr Thr Val Lys Asp Gln Ile Ala Thr Ile Ile  
 195 200 205  
 Tyr Pro Val Leu Thr Pro  
 210

&lt;210&gt; 2540

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (4190944-dir-624-13 conceptual translation of range 62576-63523)

&lt;400&gt;2540

Met Gly Met Ser Asn Leu Thr Arg Leu Ser Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Ser Arg Ser Glu Asp Gln Arg Pro Leu Phe Ala Leu Phe Leu  
 20 25 30  
 Ile Ile Tyr Leu Val Thr Leu Met Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Ile His Ser Asp Pro Arg Leu Gln Asn Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Ile Leu Ser Phe Ala Asp Ile Cys Tyr Thr Thr Val Ile Val Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Tyr Ala Glu  
 85 90 95  
 Cys Leu Ala Gln Met Tyr Phe Phe Leu Val Phe Gly Asn Ile Asp Ser  
 100 105 110  
 Tyr Leu Leu Ala Ala Met Ala Ile Asn Arg Cys Val Ala Ile Cys Asn  
 115 120 125  
 Pro Phe His Tyr Val Thr Val Met Asn Arg Arg Cys Cys Val Leu Leu  
 130 135 140  
 Leu Ala Phe Pro Ile Thr Phe Ser Tyr Phe His Ser Leu Leu His Val  
 145 150 155 160  
 Leu Leu Val Asn Arg Leu Thr Phe Cys Thr Ser Asn Val Ile His His  
 165 170 175  
 Phe Phe Cys Asp Val Asn Pro Val Leu Lys Leu Ser Cys Ser Ser Thr  
 180 185 190  
 Phe Val Asn Glu Ile Val Ala Met Thr Glu Gly Leu Ala Ser Val Met  
 195 200 205  
 Ala Pro Phe Val Cys Ile Ile Ile Ser Tyr Leu Arg Ile Leu Ile Ala  
 210 215 220  
 Val Leu Lys Ile Pro Ser Ala Ala Gly Lys His Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Leu Thr Val Val Ile Leu Phe Tyr Gly Ser Ile Ser  
 245 250 255  
 Tyr Val Tyr Leu Gln Pro Leu Ser Ser Tyr Thr Val Lys Asp Arg Ile  
 260 265 270  
 Ala Thr Ile Asn Tyr Thr Val Leu Thr Ser Val Leu Asn Pro Phe Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Gln Lys Leu Ile  
 290 295 300  
 Asn Lys Ile Lys Ser Gln Met Ser Arg Phe Ser Thr  
 305 310 315

<210> 2541  
 <211> 327  
 <212> PRT  
 <213> Unknown (4190944-dir-1371-13 conceptual translation of range 137254-138234)

<220>  
 <221> VARIANT  
 <222> (1)...(327)  
 <223> Xaa = Any Amino Acid

<400>2541  
 Arg Lys Ser Arg Asp Met Glu Ile Lys Asn Tyr Ser Ser Ser Thr Ser  
 1 5 10 15  
 Gly Phe Ile Leu Leu Gly Leu Ser Ser Asn Pro Gln Leu Gln Lys Pro  
 20 25 30  
 Leu Phe Ala Ile Phe Leu Ile Met Tyr Leu Leu Ala Ala Val Gly Asn  
 35 40 45  
 Val Leu Ile Ile Pro Ala Ile Tyr Ser Asp Pro Arg Leu His Thr Pro  
 50 55 60  
 Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr  
 65 70 75 80  
 Thr Val Ile Val Pro Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys  
 85 90 95  
 Val Ile Ser Tyr Val Gly Cys Leu Ala Gln Met Tyr Phe Phe Met Ala  
 100 105 110  
 Phe Gly Asn Thr Asp Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg  
 115 120 125  
 Leu Val Ala Ile Cys Asn Pro Leu His Tyr Asp Val Val Met Lys Pro  
 130 135 140  
 Arg His Cys Leu Leu Met Leu Leu Gly Ser Cys Ser Ile Ser His Leu  
 145 150 155 160  
 His Ser Leu Phe Arg Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala  
 165 170 175  
 Ser His Ile Ile Lys His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys  
 180 185 190  
 Leu Ser Cys Ser Asp Thr Ser Ser Ser Gln Met Val Val Met Thr Glu  
 195 200 205  
 Thr Leu Ala Val Ile Val Thr Pro Phe Leu Cys Ile Ile Phe Ser Tyr  
 210 215 220  
 Leu Arg Ile Met Val Thr Val Leu Arg Ile Pro Ser Ala Ala Gly Lys  
 225 230 235 240  
 Trp Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Ala Val Ala Leu  
 245 250 255  
 Phe Tyr Gly Ser Ile Ile Tyr Val Tyr Phe Arg Pro Leu Ser Met Tyr  
 260 265 270  
 Ser Val Val Arg Asp Arg Val Ala Thr Val Met Tyr Thr Val Val Thr  
 275 280 285  
 Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys  
 290 295 300  
 Arg Gly Leu Lys Lys Leu Gln Asp Arg Ile Tyr Arg Xaa Lys Glu Gln  
 305 310 315 320  
 Asn Val Gly Val Ser Xaa Leu  
 325

<210> 2542  
 <211> 216  
 <212> PRT  
 <213> Unknown (hg16-dir-0-8 conceptual translation of range 1-648)

<400>2542

```

Phe Met Asp Ile Cys Phe Thr Thr Val Ile Val Pro Lys Met Leu Val
1      5      10      15
Asn Phe Leu Ser Glu Thr Lys Val Ile Ser Tyr Val Gly Cys Leu Ala
20      25      30
Gln Met Tyr Phe Phe Met Ala Phe Gly Asn Thr Asp Ser Tyr Leu Leu
35      40      45
Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile Cys Asn Pro Leu His
50      55      60
Tyr Asp Val Val Met Lys Pro Arg His Cys Leu Leu Met Leu Leu Gly
65      70      75      80
Ser Tyr Ser Ile Ser His Leu His Ser Leu Phe Arg Val Leu Leu Met
85      90      95
Ser Arg Leu Ser Phe Cys Ala Ser His Ile Ile Lys His Phe Phe Cys
100     105     110
Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser Asp Thr Ser Ser Ser
115     120     125
Gln Met Val Val Met Thr Glu Thr Leu Ala Val Ile Val Thr Pro Phe
130     135     140
Leu Cys Thr Ile Phe Ser Tyr Leu Gln Ile Ile Val Thr Val Leu Arg
145     150     155     160
Ile Pro Ser Ala Ala Arg Lys Trp Lys Ala Phe Ser Thr Cys Gly Ser
165     170     175
His Leu Thr Ala Val Ala Leu Phe Tyr Gly Ser Ile Ile Tyr Val Tyr
180     185     190
Phe Arg Pro Leu Ser Met Tyr Ser Val Val Arg Asp Arg Val Ala Thr
195     200     205
Val Met Tyr Thr Val Val Thr Pro
210     215

```

&lt;210&gt; 2543

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Unknown (4190944-dir-1112-13 conceptual translation of range 111405-112373)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(323)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2543

```

Arg Asp Met Glu Thr Lys Asn Tyr Ser Ser Ser Thr Ser Gly Phe Ile
1      5      10      15
Leu Leu Gly Leu Ser Ser Asn Pro Lys Leu Gln Lys Pro Leu Phe Ala
20      25      30
Ile Phe Leu Ile Met Tyr Leu Leu Thr Ala Val Gly Asn Val Leu Ile
35      40      45
Ile Leu Ala Ile Tyr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe
50      55      60
Phe Leu Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr Thr Val Ile
65      70      75      80
Val Pro Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys Ile Ile Ser
85      90      95
Tyr Val Gly Cys Leu Ile Gln Met Tyr Phe Phe Met Ala Phe Gly Asn
100     105     110
Thr Asp Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg Leu Val Ala
115     120     125
Ile Cys Asn Pro Leu His Tyr Asp Val Val Met Lys Pro Trp His Cys
130     135     140
Leu Leu Met Leu Leu Gly Ser Cys Ser Ile Ser His Leu His Ser Leu
145     150     155     160

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```

Phe Arg Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala Ser His Ile
      165                      170                      175
Ile Lys His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys Leu Ser Cys
      180                      185                      190
Ser Asp Thr Ser Ser Ser Gln Met Val Val Met Thr Glu Thr Leu Ala
      195                      200                      205
Val Ile Val Thr Pro Phe Leu Cys Thr Ile Phe Ser Tyr Leu Gln Ile
      210                      215                      220
Ile Val Thr Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Trp Lys Ala
      225                      230                      235                      240
Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Val Leu Phe Tyr Gly
      245                      250                      255
Ser Val Ile Tyr Val Tyr Phe Arg Pro Leu Ser Met Tyr Ser Val Met
      260                      265                      270
Lys Gly Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu
      275                      280                      285
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu
      290                      295                      300
Lys Lys Leu Arg His Arg Ile Tyr Ser Xaa Lys Glu Gln Asn Val Gly
      305                      310                      315                      320
Met Ser Lys

```

&lt;210&gt; 2544

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (OST046-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2544

```

Phe Met Asp Ile Cys Phe Thr Thr Val Ile Val Pro Lys Met Leu Val
  1           5           10           15
Asn Phe Leu Ser Glu Thr Lys Ile Ile Ser Tyr Val Gly Cys Leu Val
      20           25           30
Gln Met Tyr Phe Phe Met Ala Phe Gly Asn Thr Asp Ser Tyr Leu Leu
      35           40           45
Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile Cys Asn Pro Leu His
      50           55           60
Tyr Asp Val Val Met Lys Pro Trp His Cys Leu Leu Met Leu Leu Gly
      65           70           75           80
Ser Cys Ser Ile Ser His Leu His Ser Leu Phe Arg Val Leu Leu Met
      85           90           95
Ser Arg Leu Ser Phe Cys Ala Ser His Ile Ile Lys His Phe Phe Cys
      100          105          110
Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser Asp Thr Ser Ser Ser
      115          120          125
Gln Met Val Val Met Thr Glu Thr Leu Ala Val Ile Val Thr Pro Phe
      130          135          140
Leu Cys Thr Ile Phe Ser Tyr Leu Gln Ile Ile Val Thr Val Leu Arg
      145          150          155          160
Ile Pro Ser Ala Ala Arg Lys Trp Lys Ala Phe Ser Thr Cys Gly Ser
      165          170          175
His Leu Thr Val Val Val Leu Phe Tyr Gly Ser Val Ile Tyr Val Tyr
      180          185          190
Phe Arg Pro Leu Ser Met Tyr Ser Val Met Lys Gly Arg Val Ala Thr
      195          200          205
Val Met Tyr Thr Val Val Thr Pro
      210          215

```

&lt;210&gt; 2545

&lt;211&gt; 216

&lt;212&gt; PRT



<213> Unknown (p100-dir-0-8 conceptual translation of range 2-649)

<400>2545

```

Leu Val Asp Leu Cys Phe Thr Thr Val Ile Val Pro Gln Met Leu Val
 1          5          10          15
Ser Met Leu Met Gln Asn Lys Ala Ile Ser Phe Ala Gln Cys Ile Ala
      20          25          30
Gln Met Tyr Phe Phe Val Ala Phe Gly Ile Thr Asp Ser Phe Leu Leu
      35          40          45
Ala Ala Met Pro Ile Asp Arg Tyr Met Ala Ile Cys Asn Pro Leu His
      50          55          60
Tyr Thr Thr Thr Met Ser Pro Arg Arg Cys Val Leu Leu Val Ala Met
      65          70          75          80
Ser Trp Val Val Ser His Phe His Ser Leu Val His Thr Leu Leu Met
      85          90          95
Ala Arg Leu Ser Phe Cys Gly Pro Asn Ala Ile His His Phe Phe Cys
      100          105          110
Asp Val Gln Pro Leu Leu Thr Leu Ser Cys Ser Asp Thr Ser Ile Asn
      115          120          125
Glu Val Leu Ala Phe Thr Glu Gly Ser Leu Val Ile Met Ser Pro Phe
      130          135          140
Leu Phe Ile Val Ile Ser Tyr Val Trp Ile Thr Arg Ala Val Leu Arg
      145          150          155          160
Val Pro Ser Gly Arg Gly Arg Tyr Lys Ala Phe Ser Thr Cys Ser Ser
      165          170          175
His Ile Thr Val Val Val Leu Phe Tyr Gly Thr Ile Val Ser Val Tyr
      180          185          190
Ile Arg Pro Ser Ser Thr Tyr Ser Val Thr Lys Asp Arg Val Val Thr
      195          200          205
Val Ile Tyr Thr Val Val Thr Pro
      210          215

```

<210> 2546

<211> 328

<212> PRT

<213> Unknown (4190944-rev-159-13 conceptual translation of range 16099-17082)

<220>

<221> VARIANT

<222> (1)...(328)

<223> Xaa = Any Amino Acid

<400>2546

```

Phe Gln Ala Gly Xaa Leu Ser Leu Met Met Ser Phe Ala Pro Asn Ala
 1          5          10          15
Ser His Ser Pro Val Phe Leu Leu Leu Gly Phe Ser Arg Ala Asn Ile
      20          25          30
Ser Tyr Thr Leu Leu Phe Phe Leu Phe Leu Ala Ile Tyr Leu Thr Thr
      35          40          45
Ile Leu Gly Asn Val Thr Leu Val Leu Leu Ile Ser Trp Asp Ser Arg
      50          55          60
Leu His Ser Pro Met Tyr Tyr Leu Leu Arg Gly Leu Ser Val Ile Asp
      65          70          75          80
Met Gly Leu Ser Thr Val Thr Leu Pro Gln Leu Leu Ala His Leu Val
      85          90          95
Ser His Tyr Pro Thr Ile Pro Ala Ala Arg Cys Leu Ala Gln Phe Phe
      100          105          110
Phe Phe Tyr Ala Phe Gly Val Thr Asp Thr Leu Val Ile Ala Val Met
      115          120          125
Ala Leu Asp Arg Tyr Val Ala Ile Cys Asp Pro Leu His Tyr Ala Leu

```

130	135	140
Val Met Asn His Gln Arg Cys Ala Cys Leu Leu Ala Leu Ser Trp Val		
145	150	155
Val Ser Ile Leu His Thr Met Leu Arg Val Gly Leu Val Leu Pro Leu		160
	165	170
Cys Trp Thr Gly Asp Ala Gly Gly Asn Val Asn Leu Pro His Phe Phe		175
	180	185
Cys Asp His Arg Pro Leu Leu Arg Ala Ser Cys Ser Asp Ile His Ser		190
	195	200
Asn Glu Leu Ala Ile Phe Phe Glu Gly Gly Phe Leu Met Leu Gly Pro		205
	210	215
Cys Ala Leu Ile Val Leu Ser Tyr Val Arg Ile Gly Ala Ala Ile Leu		220
225	230	235
Arg Leu Pro Ser Ala Ala Gly Arg Arg Arg Ala Val Ser Thr Cys Gly		240
	245	250
Ser His Leu Thr Met Val Gly Phe Leu Tyr Gly Thr Ile Ile Cys Val		255
	260	265
Tyr Phe Gln Pro Pro Phe Gln Asn Ser Gln Tyr Gln Asp Met Val Ala		270
	275	280
Ser Val Met Tyr Thr Ala Ile Thr Pro Leu Ala Asn Pro Phe Val Tyr		285
	290	295
Ser Leu His Asn Lys Asp Val Lys Gly Ala Leu Cys Arg Leu Leu Glu		300
305	310	315
Trp Val Lys Val Asp Pro Xaa Leu		320
	325	

&lt;210&gt; 2547

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (hg99-dir-0-8 conceptual translation of range 1-648)

&lt;400&gt;2547

Phe Ala Asp Leu Cys Phe Ala Ser Val Thr Val Pro Lys Met Leu Asp	
1	5
Asn Leu Leu Ala His Asp His Ser Ile Ser Leu Ala Gly Cys Leu Thr	10
	15
	20
Gln Met Tyr Phe Phe Phe Ala Leu Gly Val Thr Asp Ser Cys Leu Leu	25
	30
	35
Ala Asp Met Ala Tyr Asp Cys Tyr Val Asp Ile Arg His Pro Leu Pro	40
	45
	50
Tyr Asp Thr Arg Met Ser Arg Ala Met Cys Ala Ala Leu Val Gly Met	55
65	60
	65
Ala Trp Val Val Ser His Val His Ser Leu Tyr Ile Leu Leu Met	70
	75
	80
	85
Ala Arg Leu Ser Phe Cys Ala Ser His Gln Val Pro His Phe Cys	90
	95
	100
Asp His Gln Pro Leu Leu Arg Leu Ser Cys Ser Asp Asn His His Ile	105
	110
	115
Gln Leu Leu Ile Phe Thr Glu Gly Ala Ala Val Val Thr Pro Phe	120
	125
	130
Leu Leu Ile Leu Ala Ser Tyr Gly Ala Ile Ala Ala Val Leu Gln	135
145	140
	145
Leu Pro Ser Ala Ser Gly Arg Leu Arg Ala Val Ser Thr Cys Gly Ser	155
	160
	165
His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Val Ile Ala Val Tyr	170
	175
	180
Phe Gln Ala Thr Ser Arg Arg Glu Ala Glu Trp Gly Arg Val Ala Thr	185
	190
	195
Val Met Tyr Thr Val Val Thr Pro	200
	205
	210
	215

&lt;210&gt; 2548

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Unknown (p16-dir-0-11 conceptual translation of range 1-960)

&lt;400&gt;2548

```

Met Ala Pro Thr Asn Leu Thr Ser Ala Pro Val Phe Leu Leu Leu Gly
 1          5          10          15
Leu Val Thr Glu Gln Thr Asp Ala His Pro Leu Leu Phe Leu Leu Cys
          20          25          30
Leu Gly Ile Tyr Leu Leu Asn Ala Leu Ser Asn Leu Ser Met Val Ala
          35          40          45
Leu Val Arg Ser Asp Gly Ala Leu Arg Ser Pro Met Tyr Tyr Phe Leu
          50          55          60
Gly His Leu Ser Leu Val Asp Val Cys Phe Thr Thr Val Thr Val Pro
65          70          75          80
Arg Leu Leu Ala Gly Leu Leu His Pro Gly Gln Ala Ile Ser Phe Gln
          85          90          95
Ala Cys Phe Ala Glu Met Tyr Phe Phe Val Ala Leu Gly Ile Thr Glu
          100          105          110
Ser Tyr Leu Pro Ala Ala Met Ser Tyr Asp Arg Ala Thr Ala Ala Cys
          115          120          125
Arg Pro Leu Arg Tyr Gly Ala Leu Val Thr His Gly Arg Cys Ala Ser
          130          135          140
Leu Val Arg Ala Ser Trp Ala Val Thr His Leu His Ser Leu Leu His
145          150          155          160
Thr Leu Leu Leu Ser Ala Leu Ser Tyr Pro Tyr Pro Thr Pro Val Arg
          165          170          175
Pro Phe Phe Cys Asp Met Thr Val Met Leu Ser Leu Ala Thr Ser Asp
          180          185          190
Thr Ser Ala Ala Glu Thr Ala Ile Phe Ser Glu Gly Leu Ala Val Val
          195          200          205
Leu Ala Pro Leu Leu Leu Val Phe Leu Ser Tyr Ala Arg Ile Leu Val
          210          215          220
Ala Val Leu Gly Leu Pro Arg Pro Arg Ala Phe Ser Thr Cys Gly
225          230          235          240
Ala His Leu Val Ala Val Ala Val Ala Val Ala Leu Phe Phe Gly Ser
          245          250          255
Val Leu Ser Val Tyr Phe Pro Pro Ser Ser Ala Tyr Ser Ala Arg Tyr
          260          265          270
Asp Arg Leu Ala Ser Val Val Tyr Ala Val Ile Thr Pro Thr Leu Asn
          275          280          285
Pro Phe Ile Asn Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Lys
          290          295          300
Arg Gly Leu Arg Trp Arg Ala Ala Pro Gln Glu Ala Trp Arg Ala
305          310          315

```

&lt;210&gt; 2549

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Unknown (2564509-dir-0-6 conceptual translation of range 1-474)

&lt;400&gt;2549

```

Ile Cys Ser Pro Leu His Tyr Gly Met Val Met Ser Arg Arg Met Cys
 1          5          10          15
Phe Cys Leu Val Ala Ile Ser Trp Leu Val Ile Ala Val His Ser Val
          20          25          30
Leu His Ser Val Leu Thr Ser Arg Leu Ser Phe Cys Gly Ser Asn Gln
          35          40          45
Ile His His Phe Phe Cys Asp Met Thr Pro Leu Leu Lys Leu Ser Cys
          50          55          60

```

```

Ser Asp Thr Ser Val Asn Glu Leu Val Ile Phe Ile Glu Gly Pro Phe
65          70          75          80
Ser Val Ala Val Pro Leu Gly Ile Val Leu Val Ser Tyr Val Arg Ile
          85          90          95
Ile Ser Ala Ile Leu Lys Ile Arg Ser Pro Glu Gly Arg His Arg Ala
          100         105         110
Phe Ser Thr Cys Ser Ser His Leu Met Val Val Ile Leu Tyr Phe Gly
          115         120         125
Thr Ile Ile Phe Met Tyr Phe Arg Pro Thr Ser Ser Tyr Ser Leu Asp
          130         135         140
Tyr Asp Arg Val Val Ser Val Met Tyr Thr Val Val Ala Pro
145          150          155

```

&lt;210&gt; 2550

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Unknown (2564511-dir-0-6 conceptual translation of range 1-468)

&lt;400&gt;2550

```

Asn Pro Leu His Tyr Thr Thr Val Met Ser Lys Lys Val Cys Leu Leu
1          5          10          15
Leu Val Gly Met Leu Trp Leu Trp Ala Val Leu Tyr Ser Leu Met His
          20         25         30
Ile Val Leu Ile Ser Arg Leu Ser Phe Cys Gly Ser Asn Gln Ile Asn
          35         40         45
His Phe Val Cys Asp Thr Val Pro Leu Phe Lys Leu Ser Cys Ser Asp
          50         55         60
Thr Ser Thr Asn Gln Leu Val Ile Phe Thr Val Gly Ser Leu Ile Val
65          70         75          80
Met Val Pro Phe Leu Ile Val Leu Ile Ser Tyr Ala Arg Ile Val Phe
          85         90         95
Ala Ile Leu Lys Ile Ser Ser Thr Asp Gly Arg Arg Lys Thr Phe Ser
          100        105        110
Thr Cys Ser Ser His Leu Thr Val Val Thr Leu Tyr Phe Gly Thr Ile
          115        120        125
Met Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser Leu Thr Lys Asp
          130        135        140
Arg Val Ala Ser Val Met Tyr Thr Val Leu Ala Pro
145          150          155

```

&lt;210&gt; 2551

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Unknown (2564513-dir-0-6 conceptual translation of range 1-474)

&lt;400&gt;2551

```

Ile Cys Asp Pro Leu Arg Tyr Thr Val Val Met Ser Lys Arg Ile Cys
1          5          10          15
Leu Gln Met Val Ala Gly Ser Trp Val Leu Val Ser Leu His Ser Leu
          20         25         30
Leu His Thr Val Leu Thr Ala Arg Leu Ser Phe Cys Gly Arg Asn Leu
          35         40         45
Ile Arg His Phe Phe Cys Glu Met Ser Pro Leu Phe Ala Leu Ser Cys
          50         55         60
Ser Asp Thr Thr Thr Asn Glu Leu Val Ile Phe Thr Glu Gly Ser Phe
65          70         75          80
Ser Leu Ala Leu Pro Phe Leu Leu Ile Leu Phe Ser Tyr Leu Arg Ile
          85         90         95
Leu Ser Thr Val Leu Arg Ile Arg Ser Val Asp Gly Lys Cys Arg Ala
          100        105        110
Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ala Leu Phe Tyr Gly

```

115	120	125
Thr Leu Phe Ser Val Tyr Phe Arg Pro Ser Ser Ser His Ser Leu Asp		
130	135	140
Asn Asp Arg Val Val Ser Ile Met Tyr Thr Ala Ile Thr Pro		
145	150	155

&lt;210&gt; 2552

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (4808260-rev-1059-13 conceptual translation of range 106061-107005)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2552

Cys	Leu	Leu	Ser	Glu	Val	Met	Leu	Asn	Thr	Thr	Ser	Val	Thr	Glu	Phe
1				5					10					15	
Leu	Leu	Leu	Gly	Val	Thr	Asp	Ile	Gln	Glu	Leu	Gln	Pro	Phe	Leu	Phe
			20					25					30		
Val	Val	Phe	Leu	Thr	Ile	Tyr	Phe	Ile	Ser	Val	Thr	Gly	Asn	Gly	Ala
		35					40					45			
Val	Leu	Met	Ile	Val	Ile	Ser	Asp	Pro	Arg	Leu	His	Ser	Leu	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Gly	Asn	Leu	Ser	Tyr	Leu	Asp	Ile	Cys	Tyr	Ser	Thr	Val
65					70					75				80	
Thr	Leu	Pro	Lys	Met	Leu	Gln	Asn	Phe	Leu	Ser	Thr	His	Lys	Ala	Ile
			85					90						95	
Ser	Phe	Leu	Gly	Cys	Ile	Ser	Gln	Leu	His	Phe	Phe	His	Phe	Leu	Gly
			100					105					110		
Ser	Thr	Glu	Ser	Met	Leu	Phe	Ala	Val	Met	Ala	Phe	Asp	Leu	Ser	Val
		115					120					125			
Ala	Ile	Cys	Lys	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Asn	Pro	Gln	Leu
	130					135					140				
Cys	Thr	Gln	Met	Ala	Ile	Thr	Ile	Trp	Val	Ile	Gly	Phe	Phe	His	Ala
145					150					155				160	
Leu	Leu	His	Ser	Val	Met	Thr	Ser	Arg	Leu	Asn	Phe	Cys	Gly	Ser	Asn
				165				170						175	
Arg	Ile	His	His	Phe	Leu	Cys	Asp	Ile	Lys	Pro	Leu	Leu	Lys	Leu	Ala
		180						185					190		
Cys	Gly	Asn	Thr	Glu	Leu	Asn	Gln	Trp	Leu	Leu	Ser	Thr	Val	Thr	Gly
		195					200					205			
Thr	Ile	Ala	Met	Gly	Pro	Phe	Phe	Leu	Thr	Leu	Leu	Ser	Tyr	Phe	Tyr
	210					215					220				
Ile	Ile	Thr	Tyr	Leu	Phe	Phe	Lys	Thr	Arg	Ser	Cys	Ser	Met	Leu	Cys
225					230					235				240	
Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser	His	Phe	Met	Val	Val	Ile	Leu	Phe
			245						250					255	
Tyr	Ala	Pro	Val	Leu	Phe	Thr	Tyr	Ile	His	Pro	Ala	Leu	Glu	Ser	Phe
		260						265					270		
Met	Asp	Gln	Asp	Arg	Ile	Val	Ala	Ile	Met	Tyr	Thr	Val	Val	Thr	Pro
	275						280					285			
Val	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly
	290					295					300				
Ala	Leu	Gly	Arg	Val	Ile	Arg	Arg	Leu	Xaa	Phe					
305					310					315					

&lt;210&gt; 2553

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Unknown (1617234-dir-0-6 conceptual translation of range 1-486)

&lt;400&gt;2553

```

Asn Ala Ile Cys Asn Pro Leu Leu Tyr Asn Thr Ile Met Asn Lys Arg
 1           5           10           15
Thr Cys Val Ile Leu Ile Val Gly Ser Trp Leu Ile Ala Ser Ile Asn
          20           25           30
Ser Leu Ile His Thr Ile Leu Thr Phe Met Leu Pro Phe Cys Gly Ser
          35           40           45
Asn Ala Ile Asp Ser Phe Phe Cys Asp Met Pro Pro Leu Leu Lys Leu
          50           55           60
Ala Cys Thr Asp Thr Leu Val Asn Gln Ile Val Ile Phe Val Thr Gly
65          70          75          80
Ser Cys Ile Ile Ala Gly Pro Phe Met Leu Thr Val Phe Ser Tyr Val
          85          90          95
Gln Ile Ile Ser Thr Ile Val Ser Ile Arg Ser Ser Ser Arg Lys Lys
          100          105          110
Lys Ala Phe Ser Thr Cys Thr Ser His Ile Thr Ala Val Val Ile Phe
          115          120          125
Tyr Val Pro Ser Ile Cys Ile Tyr Phe Arg Pro Lys Ser Asn Gln Ala
          130          135          140
Met Ile Gln Asp Lys Met Ala Thr Val Ile Cys Ala Val Ile Thr Pro
145          150          155          160
Leu Leu

```

&lt;210&gt; 2554

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Unknown (4877310-dir-0-6 conceptual translation of range 2-481)

&lt;400&gt;2554

```

Ala Ala Ile Cys Lys Pro Leu His Tyr Asn Thr Ile Met Asn Lys Arg
 1           5           10           15
Leu Cys Val Cys Leu Ala Leu Gly Cys Trp Gly Val Gly Val Ile Asn
          20           25           30
Ser Thr Ile His Val Phe Phe Thr Phe Gln Leu Pro Phe Cys Arg Ser
          35           40           45
Arg His Ile Asn His Phe Phe Cys Glu Val Pro Pro Phe Phe Arg Leu
          50           55           60
Ser Cys Gln Asp Thr Trp Phe Asn Glu Leu Ala Met Tyr Ile Ser Ala
65          70          75          80
Cys Ile Ile Ala Ile Cys Ala Phe Phe Leu Thr Leu Ile Ser Tyr Ile
          85          90          95
Tyr Ile Ile Ser Ser Ile Ala Lys Ile Arg Ala Pro Gln Gly Arg Tyr
          100          105          110
Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ala Val Tyr
          115          120          125
Tyr Gly Thr Ile Met Phe Ile Tyr Leu His Pro His Ser Ala Tyr Ser
          130          135          140
Pro Glu Met Gly Lys Ile Val Ser Ile Ile Tyr Thr Ser Val Thr Pro
145          150          155          160

```

&lt;210&gt; 2555

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Unknown (4877337-dir-0-6 conceptual translation of range 2-481)

&lt;400&gt;2555

```

Ile Cys Ser Pro Leu Leu Tyr Phe Thr Lys Met Ser Thr Arg Val Tyr

```

```

1           5           10           15
Val Gln Leu Leu Thr Val Ala Tyr Val Gly Gly Phe Leu Asn Ala Cys
20           25           30
Ser Phe Thr Ile Cys Phe Tyr Tyr Leu Leu Leu Cys Gly Pro Asn Arg
35           40           45
Val Asn His Phe Phe Cys Asp Phe Ala Pro Leu Val Glu Phe Ser Cys
50           55           60
Ser Asp Ile Ser Ile Pro Ala Val Val Pro Ser Phe Thr Ala Gly Ser
65           70           75           80
Ile Ile Val Val Thr Val Ile Val Ile Ala Ile Ser Tyr Ile Tyr Ile
85           90           95
Leu Ile Thr Ile Leu Lys Met Arg Ser Thr Glu Gly His His Lys Ala
100          105          110
Phe Ser Thr Cys Thr Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly
115          120          125
Thr Ile Thr Leu Ile Tyr Val Met Pro Lys Ser Ser Phe Ser Thr Asp
130          135          140
Gln Asn Lys Val Val Cys Val Phe Tyr Thr Val Val Ile Pro Met Leu
145          150          155          160

```

&lt;210&gt; 2556

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (4680263-dir-1-12 conceptual translation of range 259-1203)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2556

```

Glu Met Glu Pro Gly Asn Tyr Thr Val Val Thr Glu Phe Ile Leu Leu
1           5           10           15
Gly Leu Thr Asp Asp Ile Thr Val Ser Val Ile Leu Phe Val Met Phe
20           25           30
Leu Ile Val Tyr Ser Val Thr Leu Met Gly Asn Leu Asn Ile Ile Val
35           40           45
Leu Ile Arg Thr Ser Pro Gln Leu His Thr Pro Met Tyr Leu Phe Leu
50           55           60
Ser His Leu Ala Phe Leu Asp Ile Gly Tyr Ser Ser Ser Val Thr Pro
65           70           75           80
Ile Met Leu Arg Gly Phe Leu Arg Lys Gly Thr Phe Ile Pro Val Ala
85           90           95
Gly Cys Val Ala Gln Leu Cys Ile Val Val Ala Phe Gly Thr Ser Glu
100          105          110
Ser Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
115          120          125
Ser Pro Leu Leu Tyr Ser Thr Gln Met Ser Ser Thr Val Cys Ile Leu
130          135          140
Leu Val Gly Thr Ser Tyr Leu Gly Gly Trp Val Asn Ala Trp Ile Phe
145          150          155          160
Thr Gly Cys Ser Leu Asn Leu Ser Phe Cys Gly Pro Asn Lys Ile Asn
165          170          175
His Phe Phe Cys Asp Tyr Ser Pro Leu Leu Lys Leu Ser Cys Ser His
180          185          190
Asp Phe Ser Phe Glu Val Ile Pro Ala Ile Ser Ser Gly Ser Ile Ile
195          200          205
Val Val Thr Val Phe Ile Ile Ala Leu Ser Tyr Val Tyr Ile Leu Val
210          215          220
Ser Ile Leu Lys Met Arg Ser Thr Glu Gly Arg Gln Lys Ala Phe Ser
225          230          235          240

```

```
<210> 2557
<211> 312
<212> PRT
<213> Unknown (1246533-dir-0-11 conceptual translation of range 1-936)
```

```
<210> 2558
<211> 313
<212> PRT
```



<213> Unknown (p28-dir-0-11 conceptual translation of range 1-939)

<400>2558

```

Met Glu Gly Lys Asn Leu Thr Ser Ile Ser Glu Cys Phe Leu Leu Gly
 1           5           10           15
Phe Ser Glu Gln Leu Glu Glu Gln Lys Pro Leu Phe Gly Ser Phe Leu
          20           25           30
Phe Met Tyr Leu Val Thr Val Ala Gly Asn Leu Leu Ile Ile Leu Val
      35           40           45
Ile Ile Thr Asp Thr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala
      50           55           60
Asn Leu Ser Leu Ala Asp Ala Cys Phe Val Ser Thr Thr Val Pro Lys
65           70           75           80
Met Leu Ala Asn Ile Gln Ile Gln Ser Gln Ala Ile Ser Tyr Ser Gly
          85           90           95
Cys Leu Leu Gln Leu Tyr Phe Phe Met Leu Phe Val Met Leu Glu Ala
          100          105          110
Phe Leu Leu Ala Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys His
          115          120          125
Pro Leu His Tyr Ile Leu Ile Met Ser Pro Gly Leu Cys Ile Phe Leu
          130          135          140
Val Ser Ala Ser Trp Ile Met Asn Ala Leu His Ser Leu Leu His Thr
145          150          155          160
Leu Leu Met Asn Ser Leu Ser Phe Cys Ala Asn His Glu Ile Pro His
          165          170          175
Phe Phe Cys Asp Ile Asn Pro Leu Leu Ser Leu Ser Cys Thr Asp Pro
          180          185          190
Phe Thr Asn Glu Leu Val Ile Phe Ile Thr Gly Gly Leu Thr Gly Leu
          195          200          205
Ile Cys Val Leu Cys Leu Ile Ile Ser Tyr Thr Asn Val Phe Ser Thr
          210          215          220
Ile Leu Lys Ile Pro Ser Ala Gln Gly Lys Arg Lys Ala Phe Ser Thr
225          230          235          240
Cys Ser Ser His Leu Ser Val Val Ser Leu Phe Phe Gly Thr Ser Phe
          245          250          255
Cys Val Asp Phe Ser Ser Pro Ser Thr His Ser Ala Gln Lys Asp Thr
          260          265          270
Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Gln Glu Ile Lys Ser Ser Leu Arg Lys Leu
          290          295          300
Ile Trp Val Arg Lys Ile His Ser Pro
305          310

```

<210> 2559

<211> 117

<212> PRT

<213> Unknown (2695895-dir-0-5 conceptual translation of range 2-351)

<220>

<221> VARIANT

<222> (1)...(117)

<223> Xaa = Any Amino Acid

<400>2559

```

Asp Leu Cys Tyr Ser Thr Val Ile Ala Pro Lys Ala Leu Ala Ile Phe
 1           5           10           15
Leu Ser Lys Asp Lys Lys Ile Ser Tyr Asn Gly His Ala Ala Xaa Phe
          20           25           30
Tyr Phe Leu Cys Cys Val Gly Thr Glu Gly Leu Leu Leu Ala Val Met
          35           40           45

```

Ala Tyr Asp His Phe Ser Ala Phe Cys Ser Pro Phe Leu Tyr Pro Val  
 50 55 60  
 Arg Met Ser Gln Gln Val Cys Val His Leu Val Ile Gly Ser Tyr Ile  
 65 70 75 80  
 Cys Gly Gly Ile Asn Ser Met Val Gln Thr Gly Phe Thr Phe Ser Leu  
 85 90 95  
 Asn Phe Cys Gly Glu Asn Xaa Leu Asp His Phe Phe Cys Asp Val Pro  
 100 105 110  
 Ala Leu Ile Lys Ile  
 115

&lt;210&gt; 2560

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921661-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2560

Leu Ala Asp Ala Cys Phe Val Ser Thr Thr Val Pro Lys Met Leu Ala  
 1 5 10 15  
 Asn Ile Gln Ile Gln Ser Gln Ala Ile Ser Tyr Ser Gly Cys Leu Leu  
 20 25 30  
 Gln Leu Tyr Phe Phe Met Leu Phe Val Met Leu Glu Ala Phe Leu Leu  
 35 40 45  
 Ala Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys His Pro Leu His  
 50 55 60  
 Tyr Ile Leu Ile Met Ser Pro Gly Leu Arg Ile Phe Leu Val Ser Ala  
 65 70 75 80  
 Ser Trp Ile Met Asn Ala Leu His Ser Leu Leu His Thr Leu Leu Met  
 85 90 95  
 Asn Ser Leu Ser Phe Cys Ala Asn His Glu Ile Pro His Phe Leu Cys  
 100 105 110  
 Asp Ile Asn Pro Leu Leu Gly Leu Ser Cys Thr Asp Pro Phe Thr Asn  
 115 120 125  
 Glu Leu Val Ile Phe Ile Thr Gly Gly Leu Thr Gly Leu Ile Cys Val  
 130 135 140  
 Leu Cys Leu Ile Ile Ser Tyr Thr Asn Val Phe Ser Thr Ile Leu Lys  
 145 150 155 160  
 Ile Pro Ser Ala Gln Gly Lys Arg Lys Ala Phe Ser Thr Cys Ser Ser  
 165 170 175  
 His Leu Ser Val Val Ser Leu Phe Phe Gly Thr Ser Phe Cys Val Asp  
 180 185 190  
 Phe Ser Ser Pro Ser Thr His Ser Ala Gln Lys Asp Thr Val Ala Ser  
 195 200 205  
 Val Met Tyr Thr Val Val Thr Pro  
 210 215

&lt;210&gt; 2561

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (p19-dir-0-11 conceptual translation of range 1-939)

&lt;400&gt;2561

Met Glu Gly Lys Asn Leu Thr Ser Ile Ser Glu Phe Phe Leu Leu Gly  
 1 5 10 15  
 Phe Ser Glu Gln Leu Glu Glu Gln Lys Ala Leu Phe Gly Ser Phe Leu  
 20 25 30  
 Phe Met Tyr Leu Val Met Val Ala Gly Asn Leu Leu Ile Ile Leu Val  
 35 40 45  
 Ile Ile Thr Asp Thr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Leu Ala Asp Ala Cys Phe Val Ser Thr Thr Val Pro Lys

65					70					75				80
Met	Leu	Ala	Asn	Ile	Gln	Ile	Gln	Ser	Gln	Ala	Ile	Ser	Tyr	Ser
				85					90					95
Cys	Leu	Leu	Gln	Leu	Tyr	Phe	Phe	Met	Leu	Phe	Val	Met	Leu	Glu
			100					105					110	
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys
			115				120					125		
Pro	Leu	His	Tyr	Ile	Leu	Ile	Met	Ser	Pro	Gly	Leu	Cys	Val	Phe
	130					135					140			
Val	Ser	Ala	Ser	Trp	Ile	Met	Asn	Ala	Leu	Tyr	Ser	Leu	Leu	His
145					150					155				160
Leu	Leu	Met	Asn	Ser	Leu	Ser	Phe	Cys	Ala	Asn	His	Glu	Ile	Pro
			165					170						175
Phe	Phe	Cys	Asp	Ile	Asp	Pro	Leu	Leu	Ser	Leu	Ser	Cys	Ala	Asp
			180				185					190		Pro
Phe	Thr	Asn	Glu	Leu	Val	Ile	Phe	Ile	Thr	Gly	Gly	Leu	Thr	Gly
	195						200					205		Leu
Ile	Cys	Val	Leu	Cys	Leu	Ile	Ile	Ser	Tyr	Thr	Asn	Val	Phe	Ser
	210					215					220			Thr
Ile	Leu	Lys	Ile	Pro	Ser	Ala	Gln	Gly	Lys	Arg	Lys	Ala	Phe	Ser
225					230				235					240
Cys	Ser	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Cys	Gly	Thr	Ser
			245						250					255
Cys	Val	Tyr	Phe	Ser	Pro	Pro	Ser	Thr	Arg	Ser	Ala	Gln	Lys	Asp
			260					265					270	Thr
Val	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
	275						280					285		Phe
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Ile	Lys	Ser	Ser	Leu	Arg	Lys
	290					295					300			Leu
Ile	Trp	Val	Arg	Lys	Ile	His	Ser	Pro						
305					310									

&lt;210&gt; 2562

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (p40-dir-0-11 conceptual translation of range 1-938)

&lt;400&gt;2562

Met	Glu	Gly	Lys	Asn	Leu	Thr	Ser	Ile	Ser	Glu	Phe	Phe	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Glu	Gln	Leu	Glu	Glu	Gln	Lys	Ala	Leu	Leu	Val	Ser	Phe	Leu
			20					25					30		
Phe	Met	Tyr	Leu	Val	Thr	Val	Ala	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Val
			35				40					45			
Ile	Ile	Thr	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50				55						60				
Asn	Leu	Ser	Leu	Ala	Asp	Ala	Cys	Phe	Val	Ser	Thr	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Ala	Asn	Ile	Gln	Ile	Gln	Ser	Gln	Ala	Ile	Ser	Tyr	Ser	Gly
			85						90					95	
Cys	Leu	Leu	Gln	Leu	Tyr	Phe	Phe	Met	Leu	Phe	Val	Met	Leu	Glu	Ala
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys	His
			115				120					125			
Pro	Leu	His	Tyr	Ile	Leu	Ile	Met	Ser	Pro	Gly	Leu	Cys	Val	Phe	Leu
	130					135					140				
Val	Ser	Ala	Ser	Trp	Ile	Met	Asp	Ala	Leu	His	Ser	Leu	Leu	His	Thr
145					150					155					160
Leu	Leu	Met	Asn	Ser	Leu	Ser	Phe	Tyr	Ala	Asn	His	Glu	Thr	Pro	His
			165						170					175	
Phe	Phe	Cys	Asp	Ile	Asp	Pro	Leu	Leu	Ser	Leu	Ser	Cys	Thr	Asp	Pro

Met	Glu	Gly	Lys	Asn	Leu	Thr	Ser	Ile	Ser	Glu	Phe	Phe	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Glu	Gln	Leu	Glu	Glu	Gln	Lys	Ala	Leu	Phe	Gly	Ser	Phe	Leu
			20					25					30		
Phe	Met	Tyr	Leu	Val	Thr	Val	Ala	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Val
		35					40					45			
Ile	Ile	Thr	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55				60					

Asn Leu Ser Leu Ala Asp Ala Cys Phe Val Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Ala Asn Ile Gln Ile Gln Ser Gln Ala Ile Ser Tyr Ser Gly  
 85 90 95  
 Cys Leu Leu Gln Leu Tyr Phe Phe Met Leu Phe Val Met Leu Glu Ala  
 100 105 110  
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Ile Leu Ile Met Ser Pro Gly Leu Cys Val Phe Leu  
 130 135 140  
 Val Ser Ala Ser Trp Ile Met Asn Ala Leu His Ser Leu Leu His Thr  
 145 150 155 160  
 Leu Leu Met Asn Ser Leu Ser Phe Cys Ala Asn His Glu Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Ile Asp Pro Leu Leu Ser Leu Ser Cys Thr Asp Pro  
 180 185 190  
 Phe Thr Asn Glu Leu Val Ile Phe Ile Thr Gly Gly Leu Thr Gly Leu  
 195 200 205  
 Val Cys Val Leu Cys Leu Ile Ile Ser Tyr Thr Asn Ile Phe Ser Thr  
 210 215 220  
 Ile Leu Lys Ile Pro Ser Ala Gln Gly Lys Arg Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Phe Gly Thr Ser Phe  
 245 250 255  
 Cys Val Tyr Phe Ile Pro Pro Ser Thr Arg Ser Ala Gln Lys Asp Thr  
 260 265 270  
 Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Gln Glu Ile Lys Ser Ser Leu Arg Lys Leu  
 290 295 300  
 Ile Trp Val Arg Glu Ile His Ser Pro  
 305 310

&lt;210&gt; 2565

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (3738097-rev-723-12 conceptual translation of range 72448-73392)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2565

Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly  
 1 5 10 15  
 Leu Thr Asp Arg Pro Glu Phe Trp Gln Pro Phe Phe Phe Leu Phe Leu  
 20 25 30  
 Val Ile Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Thr Leu  
 35 40 45  
 Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys  
 65 70 75 80  
 Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Asn Val Gly  
 85 90 95  
 Cys Met Thr Arg Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys  
 100 105 110  
 Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125

Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu  
 130 135 140  
 Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr  
 145 150 155 160  
 Gly Cys Met Phe Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His  
 165 170 175  
 Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr  
 180 185 190  
 Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Thr Asn Ile Thr  
 195 200 205  
 Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser  
 210 215 220  
 Ile Leu His Ile Lys Ser Thr Gln Gly Arg Ser Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Val Ile Ala Leu Ser Leu Phe Phe Gly Ser Ala Ala  
 245 250 255  
 Phe Met Tyr Ile Lys Tyr Ser Ser Gly Ser Met Glu Gln Gly Lys Val  
 260 265 270  
 Phe Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Lys Ala Leu  
 290 295 300  
 Ile Lys Ile Gln Arg Arg Asn Ile Phe Xaa Leu  
 305 310 315

&lt;210&gt; 2566

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (p41-dir-0-11 conceptual translation of range 1-938)

&lt;400&gt;2566

Met Glu Gly Lys Asn Leu Thr Ser Ile Ser Glu Phe Phe Leu Leu Gly  
 1 5 10 15  
 Phe Ser Glu Gln Leu Glu Glu Gln Lys Ala Leu Phe Gly Ser Phe Leu  
 20 25 30  
 Phe Met Tyr Leu Val Thr Val Ala Gly Asn Leu Leu Ile Ile Leu Val  
 35 40 45  
 Ile Ile Thr Asp Thr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Leu Ala Asp Ala Cys Phe Val Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Ala Asn Ile Arg Ile Gln Ser Gln Ala Ile Ser Tyr Ser Gly  
 85 90 95  
 Cys Leu Leu Gln Leu Tyr Phe Phe Met Leu Phe Val Met Leu Glu Ala  
 100 105 110  
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Ile Leu Ile Met Ser Pro Gly Leu Cys Val Phe Leu  
 130 135 140  
 Val Ser Ala Ser Trp Ile Met Asn Ala Leu His Ser Leu Leu His Thr  
 145 150 155 160  
 Leu Leu Met Asn Ser Leu Ser Phe Cys Thr Asn Arg Glu Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Ile Asn Pro Leu Leu Ser Leu Ser Cys Thr Asp Pro  
 180 185 190  
 Phe Thr Asn Glu Leu Val Ile Phe Ile Thr Gly Gly Val Ala Gly Leu  
 195 200 205  
 Val Cys Val Leu Cys Leu Ile Ser Tyr Met Asn Val Phe Ser Thr  
 210 215 220  
 Ile Leu Lys Ile Pro Ser Ala Gln Gly Lys Arg Ser Ser Phe Ser Thr  
 225 230 235 240

[illegible]

<210> 2567

<211> 315

<212> PRT

<213> Unknown (2317703-dir-0-13 conceptual translation of range 211-1155)

<220>

<221> VARIANT

<222> (1) ... (315)

<223> Xaa = Any Amino Acid

<400>2567

Met 1	Ala	Thr	Gly	Asn 5	Tyr	Cys	Val	Phe	Pro 10	Glu	Phe	Ile	Leu	Thr 15	Gly
Leu	Ser	Lys	Lys 20	Ser	Glu	Leu	Gln	Met 25	Pro	Leu	Phe	Val	Leu	Phe	Leu
Gly	Ile	Tyr 35	Ile	Val	Thr	Val	Val 40	Gly	Asn	Leu	Gly	Met 45	Ile	Thr	Leu
Ile	Arg 50	Leu	Ser	Ser	Leu	Leu 55	His	Thr	Pro	Met	Tyr 60	Tyr	Phe	Leu	Ser
Ser 65	Leu	Ser	Phe	Ile	Asp 70	Leu	Cys	His	Ser	Thr 75	Val	Ile	Thr	Pro	Lys 80
Met	Leu	Val	Asn 85	Phe	Val	Ala	Glu	Lys 90	Asn	Ile	Ile	Ser	Tyr	Thr	Gly
Cys	Met	Thr 100	Gln	Leu	Phe	Phe	Phe 105	Leu	Ile	Phe	Ala	Ile	Ala	Glu	Cys
His	Met 115	Leu	Ala	Ala	Met	Ala	Tyr 120	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
Pro	Leu 130	Leu	Tyr	Asn	Ala	Ile 135	Met	Ser	Tyr	Gln	Ser	Tyr	Ile	Ser	Met
Ile 145	Ser	Gly	Val	Tyr 150	Ile	Ile	Gly	Val	Val	Cys 155	Ala	Ser	Ala	His	Thr 160
Gly	Phe	Met	Ile 165	Arg	Ser	Gln	Phe	Cys 170	Asn	Leu	Asp	Val	Ile	Asn	His 175
Tyr	Phe	Cys 180	Asp	Leu	Leu	Pro	Leu 185	Leu	Glu	Leu	Ala	His 190	Ser	Ser	Thr
Tyr	Val	Asn 195	Glu	Leu	Val	Ile 200	Leu	Ile	Cys	Gly	Thr 205	Cys	Asn	Ile	Val
Val	Pro 210	Thr	Leu	Thr	Ile 215	Leu	Thr	Ser	Tyr	Ile 220	Phe	Ile	Ile	Ala	Thr
Ile 225	Leu	His	Ile	Arg 230	Ser	Thr	Glu	Gly	Arg	Tyr 235	Lys	Ala	Phe	Ser	Thr 240
Cys	Ser	Ser	His 245	Ile	Leu	Ala	Val	Ala 250	Val	Phe	Phe	Gly	Ser	Ala	Ala 255
Phe	Met	Tyr 260	Leu	Gln	Pro	Ser	Ser 265	Val	Ser	Ser	Met	Asp 270	Gln	Gly	Lys
Val	Ser 275	Ser	Val	Phe	Tyr	Thr 280	Ile	Val	Val	Pro	Met 285	Leu	Asn	Pro	Leu
Ile	Tyr 290	Ser	Leu	Arg 295	Asn	Lys	Asp	Val	Ser	Thr 300	Ala	Leu	Lys	Lys	Ile
Leu	Glu	Arg	Lys	Ser	Phe	Val	Xaa	Thr	Glu	Val					

305

310

315

&lt;210&gt; 2568

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Unknown (888-dir-0-5 conceptual translation of range 2-343)

&lt;400&gt;2568

Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Ser	Asn	Thr	Leu	Cys
1				5					10					15	
Ile	Arg	Leu	Leu	Val	Leu	Ser	Leu	Leu	Gly	Gly	Leu	Leu	His	Ala	Ile
			20					25					30		
Ile	His	Ser	Ser	Phe	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Asp	Ser	Ile	Ile
		35					40					45			
Val	His	His	Phe	Tyr	Cys	Asp	Ile	Ile	Pro	Leu	Leu	Lys	Ile	Thr	Cys
	50					55					60				
Thr	Asp	Pro	Ser	Ile	Asn	Tyr	Leu	Ile	Val	Phe	Ile	Phe	Ala	Gly	Ser
65					70					75				80	
Ile	Gln	Met	Phe	Thr	Ile	Leu	Ile	Val	Leu	Val	Ser	Tyr	Thr	Leu	Val
				85					90					95	
Leu	Phe	Thr	Ile	Leu	Arg	Lys	Lys	Ser	Leu	Gln	Gly	Ile	Lys	Lys	Ala
			100					105					110		
Phe	Ser														

&lt;210&gt; 2569

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Unknown (1514485-dir-0-6 conceptual translation of range 2-478)

&lt;400&gt;2569

Val	Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Ile	Ser	Met	Pro	Lys	Ser
1				5					10					15	
Leu	Cys	Met	Lys	Leu	Val	Ala	Gly	Ser	Tyr	Leu	Gly	Gly	Val	Leu	Asn
			20					25					30		
Ser	Leu	Thr	Gln	Thr	Cys	Cys	Leu	Pro	Leu	Pro	Phe	Cys	Gly	Pro	
		35					40					45			
Asn	Val	Ile	Asn	His	Tyr	Phe	Cys	Asp	Thr	Asn	Pro	Leu	Leu	Lys	Leu
	50					55					60				
Thr	Cys	Ser	Asp	Gly	Arg	Leu	Asn	Glu	Leu	Leu	Leu	Val	Thr	Phe	Asn
65					70					75				80	
Gly	Thr	Ile	Ser	Met	Thr	Val	Leu	Leu	Ile	Ile	Val	Ile	Ser	Tyr	Val
				85					90					95	
Tyr	Ile	Leu	Val	Ser	Ile	Leu	Ser	Ile	Arg	Ser	Ala	Arg	Gly	Arg	His
			100					105					110		
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Leu	Thr	Val	Thr	Leu	Phe
		115					120					125			
Tyr	Val	Pro	Ala	Gly	Leu	Ser	His	Met	Gln	Pro	Gly	Ser	Lys	Tyr	Ser
	130					135					140				
Leu	Asp	Met	Glu	Lys	Val	Thr	Ala	Val	Phe	Tyr	Thr	Leu	Leu	Val	
145					150					155					

&lt;210&gt; 2570

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Unknown (1514487-dir-0-5 conceptual translation of range 2-394)

&lt;400&gt;2570

Val	Ala	Ile	Cys	Ser	Pro	Leu	Leu	Tyr	Ser	Thr	Val	Met	Thr	Lys	Arg
1				5					10					15	
Val	Cys	Met	Gln	Leu	Val	Val	Gly	Ser	Tyr	Met	Gly	Gly	Leu	Leu	Asn



	20		25		30										
Ser	Leu	Thr	His	Thr	Cys	Gly	Leu	Leu	Gly	Leu	Pro	Phe	Cys	Gly	Pro
	35						40					45			
Asn	Val	Ile	Asn	His	Tyr	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Gln	Leu
	50					55				60					
Ala	Cys	Ser	Asp	Thr	His	Arg	Asn	Glu	Thr	Leu	Leu	Leu	Ala	Phe	Ser
65					70				75						80
Ala	Val	Ile	Ala	Leu	Phe	Thr	Leu	Phe	Val	Ile	Thr	Ala	Ser	Tyr	Met
			85						90					95	
Leu	Ile	Leu	Ser	Val	Ile	Leu	Lys	Ile	Gln	Ser	Asp	Asp	Gly	Arg	Lys
		100					105						110		
Lys	Thr	Phe	His	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Ile	Thr	Ile	Phe
	115						120					125			
Phe	Gly	Ser													
	130														

&lt;210&gt; 2571

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Unknown (32508-dir-0-5 conceptual translation of range 2-343)

&lt;400&gt;2571

Ile	Val	Ser	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Asp	Arg	Lys	Cys
1				5				10					15		
Val	Glu	Leu	Val	Thr	Gly	Ser	Trp	Ile	Gly	Gly	Ile	Val	Asn	Thr	Leu
		20					25					30			
Ile	His	Thr	Ile	Ser	Leu	Arg	Arg	Leu	Ser	Phe	Cys	Arg	Leu	Asn	Ala
	35					40					45				
Val	Ser	His	Phe	Phe	Cys	Asp	Ile	Pro	Ser	Leu	Leu	Lys	Leu	Ser	Cys
	50				55					60					
Ser	Asp	Thr	Ser	Met	Asn	Glu	Leu	Leu	Leu	Leu	Thr	Phe	Ser	Gly	Val
65				70				75							80
Ile	Ala	Met	Ala	Thr	Phe	Leu	Thr	Val	Ile	Ile	Ser	Tyr	Ile	Phe	Ile
			85					90					95		
Ala	Phe	Ala	Ser	Leu	Arg	Ile	His	Ser	Ala	Ser	Gly	Arg	Gln	Gln	Ala
		100					105						110		
Phe	Ser														

&lt;210&gt; 2572

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (p42-dir-0-11 conceptual translation of range 1-945)

&lt;400&gt;2572

Met	Glu	Ser	Glu	Ala	Gly	Thr	Asn	Arg	Thr	Ala	Val	Ala	Glu	Phe	Ile
1				5					10				15		
Leu	Leu	Gly	Leu	Val	Gln	Thr	Glu	Glu	Met	Gln	Ser	Val	Val	Phe	Val
		20					25					30			
Leu	Leu	Leu	Phe	Ala	Tyr	Leu	Val	Thr	Thr	Gly	Gly	Asn	Pro	Ser	Ile
	35					40					45				
Leu	Ala	Ala	Val	Leu	Val	Glu	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe
	50				55					60					
Phe	Leu	Gly	Asn	Leu	Ser	Val	Leu	Asp	Val	Gly	Cys	Ile	Thr	Val	Thr
65				70				75							80
Val	Pro	Ala	Met	Leu	Gly	Arg	Leu	Leu	Ser	His	Lys	Cys	Ile	Ile	Ser
			85					90					95		
Tyr	Asp	Ala	Cys	Leu	Ser	Gln	Leu	Phe	Phe	His	Leu	Leu	Ala	Gly	
		100					105					110			
Met	Asp	Cys	Phe	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Leu	Ala
	115						120					125			

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Ile Cys Arg Pro Leu Thr Tyr Ser Thr Arg Met Ser Gln Thr Val Gln
 130                      135                      140
Gly Met Leu Val Ala Val Ser Trp Thr Cys Ala Phe Thr Asn Ala Leu
145                      150                      155                      160
Thr His Thr Ile Ala Leu Thr Thr Leu Asn Phe Cys Gly Pro Ser Val
                      165                      170                      175
Ile Asn His Phe Tyr Cys Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys
                      180                      185                      190
Ser Ser Thr Gln Leu Asn Glu Leu Leu Phe Val Ala Ala Ala Phe
                      195                      200                      205
Met Ala Val Val Pro Leu Val Leu Ile Ser Val Ser Tyr Ala His Val
                      210                      215                      220
Val Ala Ala Val Leu Gln Ile His Ser Ala Glu Gly Arg Lys Lys Ala
225                      230                      235                      240
Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Gly Ile Phe Tyr Gly
                      245                      250                      255
Thr Gly Val Phe Ser Tyr Met Arg Leu Gly Ser Val Glu Ser Ser Asp
                      260                      265                      270
Lys Asp Lys Gly Val Gly Val Phe Met Thr Val Ile Asn Pro Met Leu
                      275                      280                      285
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Thr Asp Val Gln Gly Ala Leu
                      290                      295                      300
Trp Gln Leu Leu Val Gly Lys Arg Ser Leu Thr
305                      310                      315

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&lt;210&gt; 2573

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (p176-dir-0-11 conceptual translation of range 1-945)

&lt;400&gt;2573

```

Met Gln Pro Glu Ser Gly Ala Asn Gly Thr Val Ile Ala Glu Phe Ile
 1                      5                      10                      15
Leu Leu Gly Leu Leu Glu Ala Pro Gly Leu Gln Pro Val Val Phe Val
                      20                      25                      30
Leu Phe Leu Phe Ala Tyr Leu Val Thr Val Gly Gly Asn Leu Ser Ile
                      35                      40                      45
Leu Ala Ala Val Leu Val Glu Pro Lys Leu His Ser Pro Met Tyr Phe
                      50                      55                      60
Phe Leu Gly Asn Leu Ser Val Leu Asp Val Gly Cys Ile Ser Val Thr
65                      70                      75                      80
Val Pro Ser Met Leu Ser Arg Leu Leu Ser Arg Lys Arg Ala Val Pro
                      85                      90                      95
Cys Gly Ala Cys Leu Thr Gln Leu Phe Phe His Leu Phe Val Gly
                      100                      105                      110
Val Asp Cys Phe Leu Leu Thr Ala Met Ala Tyr Asp Arg Phe Leu Ala
                      115                      120                      125
Ile Cys Arg Pro Leu Thr Tyr Ser Thr Arg Met Ser Gln Thr Val Gln
                      130                      135                      140
Arg Met Leu Val Ala Ala Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu
145                      150                      155                      160
Thr His Thr Val Ala Met Ser Thr Leu Asn Phe Cys Gly Pro Asn Glu
                      165                      170                      175
Val Asn His Phe Tyr Cys Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys
                      180                      185                      190
Ser Ser Thr Gln Leu Asn Glu Leu Leu Leu Phe Ala Val Gly Phe Ile
                      195                      200                      205
Met Ala Gly Thr Pro Met Ala Leu Ile Val Ile Ser Tyr Ile His Val
210                      215                      220
Ala Ala Ala Val Leu Arg Ile Arg Ser Val Glu Gly Arg Lys Lys Ala
225                      230                      235                      240

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Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Ala Met Phe Tyr Gly  
                           245                          250                          255  
 Ser Gly Ile Phe Asn Tyr Met Arg Leu Gly Ser Thr Lys Leu Ser Asp  
                           260                          265                          270  
 Lys Asp Lys Ala Val Gly Ile Phe Asn Thr Val Ile Asn Pro Met Val  
                           275                          280                          285  
 Asn Pro Ile Ile Tyr Arg Phe Arg Asn Pro Glu Val Gln Ser Ala Ile  
                           290                          295                          300  
 Trp Arg Met Leu Thr Gly Arg Arg Ser Leu Ala  
 305                          310                          315

&lt;210&gt; 2574

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Unknown (1552397-dir-0-6 conceptual translation of range 1-486)

&lt;400&gt;2574

Val Ala Val Cys His Pro Leu Leu Tyr Val Phe His Met Ser Gln Lys  
 1                          5                          10                          15  
 His Cys Thr Phe Phe Val Ser Ala Ala Trp Ile Ile Gly Phe Leu Asp  
                           20                          25                          30  
 Pro Thr Ser Tyr Val Val Leu Ile Ser Lys Phe Ser Phe Cys Thr Ser  
                           35                          40                          45  
 Asn Ile Ile Asp His Phe Phe Cys Asp Leu Ala Pro Leu Leu Lys Leu  
                           50                          55                          60  
 Ser Cys Ser Asp Thr Phe Gln Ile Glu Val Leu Asn Tyr Val Glu Ser  
 65                          70                          75                          80  
 Ala Leu Val Thr Leu Asn Ser Phe Val Leu Thr Val Ile Ser Tyr Ile  
                           85                          90                          95  
 Phe Thr Ile Ser Ala Ile Leu Asn Ile Lys Ser Ala Glu Gly Arg His  
                           100                          105                          110  
 Lys Ala Phe Ser Thr Cys Thr Ser His Leu Thr Cys Val Ile Ile Phe  
                           115                          120                          125  
 Tyr Ser Thr Ile Ile Ser Leu Tyr Ile Arg Pro Ile Ser Thr Tyr Ala  
                           130                          135                          140  
 Pro Lys Gln Asp Gln Phe Phe Ala Leu Leu Tyr Ile Val Leu Ile Pro  
 145                          150                          155                          160  
 Leu Leu

&lt;210&gt; 2575

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Unknown (1552399-dir-0-6 conceptual translation of range 1-483)

&lt;400&gt;2575

Val Ala Ile Cys Tyr Pro Leu His Tyr Ala Leu Arg Met Ser Leu Lys  
 1                          5                          10                          15  
 His Cys Ala Lys Ile Ile Val Gly Val Trp Val Ala Gly Phe Leu Ala  
                           20                          25                          30  
 Pro Val Ile His Thr Val Leu Met Thr Asn Leu Ser Phe Cys Ser Ser  
                           35                          40                          45  
 Asn His Ile Asn His Phe Leu Cys Asp Leu Thr Pro Val Leu Lys Ile  
                           50                          55                          60  
 Ser Cys Ser Asp Thr Ser Leu Ile Glu Met Ile Thr Tyr Ile Asp Gly  
 65                          70                          75                          80  
 Val Ile Val Ala Phe Ser Thr Phe Thr Ile Thr Ser Val Ser Tyr Val  
                           85                          90                          95  
 Phe Ile Leu Phe Lys Ile Leu Lys Ile His Ser Ser Gln Gly Lys Lys  
                           100                          105                          110  
 Lys Ala Leu Ser Thr Cys Thr Ser His Leu Thr Cys Val Ile Ile Phe

	115					120				125					
Tyr	Gly	Ser	Ile	Ile	Cys	Leu	Tyr	Met	Arg	Pro	Thr	Lys	Ser	Ile	Ser
	130					135					140				
Pro	Asn	Gln	Asp	Val	Phe	Ala	Leu	Leu	Tyr	Ala	Val	Leu	Val	Pro	Met
145					150					155					160
Leu															

&lt;210&gt; 2576

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Unknown (4877302-dir-0-6 conceptual translation of range 2-481)

&lt;400&gt;2576

Ile	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Thr	Ser	Ile	Ile	Ser	Thr	Lys
1				5					10					15	
Val	Cys	Ile	Leu	Leu	Ala	Ala	Leu	Arg	Trp	Ser	Val	Gly	Phe	Val	Cys
			20					25					30		
Thr	Leu	Pro	Cys	Thr	Val	Leu	Leu	Leu	Arg	Leu	Ser	Phe	Cys	Gly	Pro
		35					40					45			
Lys	Glu	Ile	Tyr	His	Tyr	Tyr	Cys	Asp	His	Pro	Gln	Ile	Leu	Lys	Val
	50					55					60				
Ala	Cys	Asn	Asp	Thr	Ser	Leu	Asn	Tyr	Tyr	Val	Ser	Leu	Tyr	Val	Ala
65					70					75					80
Ala	Val	Val	Ile	Val	Val	Pro	Phe	Leu	Phe	Ile	Leu	Ser	Thr	Tyr	Leu
				85					90					95	
Gly	Ile	Leu	Arg	Ala	Val	Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg
			100					105					110		
Lys	Thr	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Val	Cys	Val	Val	Ile	Phe
		115					120					125			
Tyr	Leu	Ser	Ala	Gly	Phe	Ala	Tyr	Phe	Arg	Pro	Gln	Glu	Thr	Ser	Ala
	130					135					140				
Ser	Asp	Tyr	Ser	Ile	Met	Ala	Ser	Leu	Leu	Tyr	Ser	Thr	Leu	Ser	Pro
145					150					155					160

&lt;210&gt; 2577

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Unknown (2564501-dir-0-6 conceptual translation of range 1-459)

&lt;400&gt;2577

Lys	Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Ser	His	Arg	Thr	Cys	Gly	Leu
1				5					10					15	
Leu	Val	Ala	Ala	Ser	Trp	Val	Gly	Gly	Ser	Ile	His	Ser	Leu	Leu	Gln
			20					25					30		
Thr	Leu	Leu	Leu	Ala	Trp	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Met	Ile	Asp
		35					40					45			
Ser	Phe	Phe	Cys	Asp	Ala	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp
	50					55					60				
Thr	Thr	Leu	Val	Gly	Trp	Leu	Ile	Leu	Cys	Asn	Gly	Gly	Leu	Ile	Ala
65					70					75					80
Val	Cys	Ser	Phe	Ser	Val	Leu	Val	Thr	Ser	Tyr	Thr	Phe	Ile	Ile	Arg
				85					90					95	
Thr	Pro	Arg	Thr	Gln	Leu	Ile	Glu	Gly	Lys	Arg	Arg	Ala	Leu	Ser	Thr
			100					105					110		
Cys	Gly	Ser	His	Cys	Ile	Val	Val	Val	Phe	Phe	Phe	Gly	Pro	Cys	Ile
		115					120					125			
Tyr	Ile	Tyr	Leu	Arg	Pro	Ser	Ile	Ser	Ile	Phe	Leu	Asp	Lys	Val	Val
	130					135					140				
Ser	Val	Phe	Tyr	Thr	Leu	Ile	Thr	Pro							
145					150										

&lt;210&gt; 2578

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Unknown (2564499-dir-0-6 conceptual translation of range 1-456)

&lt;400&gt;2578

```

Asn Pro Leu Arg Tyr Thr Thr Ile Met Ser Arg Lys Val Cys Ser Leu
 1          5          10          15
Leu Val Leu Ala Cys Trp Val Gly Gly Ala Val His Ser Thr Ala Gln
          20          25          30
Val Leu Leu Val Met Thr Leu Pro Phe Cys Gly Pro Asn Glu Val Gly
          35          40          45
His Phe Phe Cys Asp Ile Pro Pro Leu Phe Pro Leu Val Cys Thr Asp
          50          55          60
Thr Phe Leu Ser Gly Val Leu Ile Met Ser Asn Ser Gly Leu Ile Ser
65          70          75          80
Leu Ala Cys Phe Leu Thr Leu Ile Ile Ser Tyr Thr Leu Ile Leu Leu
          85          90          95
Ala Val Arg Arg Cys Ser Ala Glu Gly Lys Ser Lys Ala Leu Ser Thr
          100          105          110
Cys Gly Thr His Leu Thr Val Val Thr Ile Ala Phe Gly Pro Ser Ile
          115          120          125
Phe Ile Tyr Met Lys Pro Met Asn Leu Gln Val Asp Lys Ile Val Ala
          130          135          140
Leu Phe Phe Val Ile Ile Thr Pro
145          150

```

&lt;210&gt; 2579

&lt;211&gt; 205

&lt;212&gt; PRT

&lt;213&gt; Unknown (hg449-dir-0-7 conceptual translation of range 1-616)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(205)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2579

```

Leu Met Glu Ile Ser Tyr Phe Thr Val Val Pro Lys Phe Ile Thr Asp
 1          5          10          15
Leu Leu Ala Lys Ile Lys Ala Ile Ser Leu Glu Gly Tyr Leu Ala Gln
          20          25          30
Ile Phe Leu His Phe Cys Gly Ile Pro Trp Ile Phe Leu Leu Pro Leu
          35          40          45
Met Thr Asn Asp Gln Tyr Met Ala Asn Cys Lys Leu Tyr Tyr Tyr Thr
          50          55          60
Thr Ile Met Ser Cys Arg Val Cys His Leu Leu Val Ala Gly Phe Trp
65          70          75          80
Leu Arg Gly Ile Ile His Ser Met Val Gln Ile Leu Val Ser Val Gln
          85          90          95
Leu Phe Phe Cys Gly Pro Asn Met Ile Asp His Ser Phe Cys Asp Leu
          100          105          110
Gln Val Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Val Glu Gly Val
          115          120          125
Ile Val Leu Ala Asn Ser Glu Leu Val Ser Val Phe Phe Leu Ile Leu
          130          135          140
Val Ser Ser Tyr Ile Ile Ile Leu Val Asn Leu Arg Asn His Ser Ala
145          150          155          160
Glu Gly Arg Cys Lys Ala Leu Ser Thr Cys Ala Ser Tyr Leu Val Phe
          165          170          175

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Xaa Thr Cys Ile Phe Leu Tyr Val Xaa Leu Ser Ser Thr Phe Thr Lys  
                   180                  185                  190  
 Asp Lys Leu Val Ala Val Phe Tyr Val Ile Ile Thr Pro  
                   195                  200                  205

<210> 2580

<211> 154

<212> PRT

<213> Unknown (902708-dir-0-6 conceptual translation of range 2-463)

<400>2580

Ile Cys Lys Pro Leu His Tyr Met Thr Ile Met Ser Arg Pro Val Cys  
 1                  5                  10                  15  
 Ile Phe Leu Val Gly Ala Ala Val Ile Leu Gly Phe Ile His Gly Ala  
                   20                  25                  30  
 Ile Gln Thr Leu Phe Met Ala Gln Leu Pro Phe Cys Gly Pro Asn Ile  
                   35                  40                  45  
 Ile Asn His Phe Met Cys Asp Leu Ile Pro Leu Leu Glu Leu Ala Cys  
                   50                  55                  60  
 Thr Asp Thr His Thr Leu Gly Pro Leu Ile Ala Ala Asn Ser Gly Ser  
 65                  70                  75                  80  
 Leu Cys Leu Leu Thr Phe Ser Met Leu Val Val Ser Tyr Val Val Ile  
                   85                  90                  95  
 Pro Arg Ser Leu Arg Asn His Ser Ser Glu Gly Arg Arg Lys Ala Leu  
                   100                  105                  110  
 Ser Thr Cys Ala Ser His Val Thr Val Val Val Leu Phe Leu Val Pro  
                   115                  120                  125  
 Cys Ser Tyr Leu Tyr Leu Arg Pro Met Thr Ser Phe Pro Thr Asn Lys  
                   130                  135                  140  
 Ala Val Thr Val Phe Cys Thr Leu Val Thr  
 145                  150

<210> 2581

<211> 114

<212> PRT

<213> Unknown (32513-dir-0-5 conceptual translation of range 2-343)

<400>2581

Ile Cys Tyr Pro Leu Arg Tyr Thr Ala Ile Met Asn Pro Arg Ile Cys  
 1                  5                  10                  15  
 Val Ala Leu Ala Val Gly Thr Trp Leu Leu Gly Cys Ile His Ser Ser  
                   20                  25                  30  
 Ile Leu Thr Ser Leu Thr Phe Thr Leu Pro Tyr Cys Gly Pro Asn Glu  
                   35                  40                  45  
 Val Asp His Phe Phe Cys Asp Ile Pro Ala Leu Leu Pro Leu Ala Cys  
                   50                  55                  60  
 Ala Asp Thr Ser Leu Ala Gln Arg Val Ser Phe Thr Ser Val Gly Leu  
 65                  70                  75                  80  
 Ile Ser Leu Val Cys Phe Leu Leu Ile Leu Leu Ser Tyr Thr Arg Ile  
                   85                  90                  95  
 Thr Ile Ser Ile Leu Ser Ile Arg Thr Thr Glu Gly Arg Arg Arg Ala  
                   100                  105                  110  
 Phe Ser

<210> 2582

<211> 114

<212> PRT

<213> Unknown (32516-dir-0-5 conceptual translation of range 2-343)

<400>2582

```

Ile Cys His Pro Leu Asn Tyr Pro Val Ile Met Asn Arg Gly Val Phe
 1      5      10      15
Met Lys Leu Val Ile Phe Ser Trp Ile Ser Gly Ile Met Val Ala Thr
      20      25      30
Val Gln Thr Thr Trp Val Phe Ser Phe Pro Phe Cys Gly Pro Asn Glu
      35      40      45
Ile Asn His Leu Phe Cys Glu Thr Pro Pro Val Leu Glu Leu Val Cys
      50      55      60
Ala Asp Thr Phe Leu Phe Glu Ile Tyr Ala Phe Thr Gly Thr Ile Leu
      65      70      75      80
Ile Val Met Val Pro Phe Leu Leu Ile Leu Leu Ser Tyr Ile Arg Val
      85      90      95
Leu Phe Ala Ile Leu Lys Met Pro Ser Thr Thr Gly Arg Gln Lys Ala
      100      105      110
Phe Ser

```

&lt;210&gt; 2583

&lt;211&gt; 195

&lt;212&gt; PRT

&lt;213&gt; Unknown (2252615-dir-0-7 conceptual translation of range 1-586)

&lt;400&gt;2583

```

Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr
 1      5      10      15
Ser Cys Val Arg Pro Gln Met Leu Val His Leu Trp Gly Pro His Lys
      20      25      30
Thr Ile Ser Phe Leu Gly Cys Ala Val Gln Leu Phe Ile Phe Leu Leu
      35      40      45
Leu Gly Thr Thr Glu Cys Val Leu Leu Thr Val Met Ala Phe Asp Arg
      50      55      60
Tyr Val Ala Val Cys Gln Pro Leu His Tyr Ala Thr Ile Met His Pro
      65      70      75      80
Arg Leu Cys Arg Gln Leu Ala Ala Val Ala Trp Val Met Gly Leu Val
      85      90      95
Gln Ser Ile Val Gln Thr Pro Pro Thr Leu Arg Leu Pro Phe Cys Pro
      100      105      110
His Arg Gln Ile Asp Asp Phe Val Cys Gln Val Pro Ser Leu Ile Arg
      115      120      125
Leu Ser Cys Gly Asp Thr Thr Phe Asn Gly Ile Gln Leu Ala Val Ser
      130      135      140
Ser Val Val Phe Leu Val Val Pro Leu Ala Leu Ile Leu Ile Ser Tyr
      145      150      155      160
Gly Ala Ile Ala Arg Ala Val Leu Arg Ile Ser Ser Ala Thr Ala Trp
      165      170      175
Arg Lys Ala Leu Gly Thr Cys Ser Ser His Leu Ala Val Val Thr Leu
      180      185      190
Phe Tyr Ser
      195

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&lt;210&gt; 2584

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Unknown (3328023-dir-0-5 conceptual translation of range 1-318)

&lt;400&gt;2584

```

Thr Thr Glu Cys Val Leu Leu Thr Val Met Ala Phe Asp Arg Tyr Val
 1      5      10      15
Ala Val Cys Gln Pro Leu His Tyr Ala Thr Ile Met His Pro Arg Leu
      20      25      30
Cys Arg Gln Leu Ala Ala Val Ala Trp Val Met Gly Leu Val Gln Ser

```

	35					40				45					
Ile	Val	Gln	Thr	Pro	Pro	Thr	Leu	Arg	Leu	Pro	Phe	Cys	Pro	His	Arg
50						55					60				
Arg	Val	Asp	Asp	Phe	Val	Cys	Glu	Val	Pro	Ala	Leu	Ile	Arg	Leu	Ser
65					70					75					80
Cys	Gly	Asp	Thr	Thr	Tyr	Asn	Glu	Ile	Gln	Met	Ala	Val	Ala	Ser	Val
				85					90					95	
Phe	Ile	Leu	Val	Val	Pro	Leu	Ser	Leu	Ile						
			100					105							

&lt;210&gt; 2585

&lt;211&gt; 194

&lt;212&gt; PRT

&lt;213&gt; Unknown (2828696-dir-0-7 conceptual translation of range 1-582)

&lt;400&gt;2585

Tyr	Phe	Phe	Leu	Ser	Asp	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr
1				5					10					15	
Ser	Cys	Val	Pro	Gln	Met	Leu	Val	Asn	Leu	Trp	Gly	Pro	Lys	Lys	Thr
			20					25					30		
Ile	Ser	Phe	Leu	Gly	Cys	Ser	Val	Gln	Leu	Phe	Ile	Phe	Leu	Ser	Leu
		35					40					45			
Gly	Thr	Thr	Glu	Cys	Ile	Leu	Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Tyr
50						55					60				
Val	Ala	Val	Cys	Gln	Pro	Leu	His	Tyr	Ala	Thr	Ile	Ile	His	Pro	Arg
65					70				75						80
Leu	Cys	Trp	Gln	Leu	Ala	Ser	Val	Ala	Trp	Val	Met	Ser	Leu	Val	Gln
			85					90						95	
Ser	Ile	Val	Gln	Lys	Pro	Ser	Thr	Leu	His	Leu	Pro	Phe	Cys	Pro	His
			100					105					110		
Gln	Gln	Ile	Asp	Asp	Phe	Leu	Cys	Glu	Val	Pro	Ser	Leu	Ile	Gly	Leu
		115					120					125			
Ser	Cys	Gly	Asp	Thr	Ser	Tyr	Asn	Glu	Ile	Gln	Leu	Ala	Val	Ser	Ser
		130				135					140				
Val	Ile	Phe	Val	Val	Val	Pro	Leu	Ser	Leu	Ile	Leu	Ala	Tyr	Tyr	Gly
145					150				155						160
Ala	Thr	Ala	Gln	Ala	Val	Leu	Arg	Ile	Asn	Ser	Ala	Thr	Ala	Trp	Arg
			165					170						175	
Lys	Ala	Phe	Gly	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe
			180					185						190	

Tyr Ser

&lt;210&gt; 2586

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (4160199-rev-489-12 conceptual translation of range 49035-49987)

&lt;400&gt;2586

Gln	Glu	Gln	Ala	Met	Val	Asn	Gln	Ser	Ser	Thr	Pro	Gly	Phe	Leu	Leu
1				5					10					15	
Leu	Gly	Phe	Ser	Glu	His	Pro	Gly	Leu	Glu	Arg	Thr	Leu	Phe	Val	Val
			20					25					30		
Val	Phe	Thr	Ser	Tyr	Leu	Leu	Thr	Leu	Val	Gly	Asn	Thr	Leu	Ile	Ile
		35					40					45			
Leu	Leu	Ser	Ala	Leu	Asp	Pro	Lys	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe
50						55					60				
Leu	Ser	Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Ser	Cys	Val
65					70				75						80
Pro	Gln	Met	Leu	Val	Asn	Leu	Trp	Gly	Pro	Lys	Lys	Thr	Ile	Ser	Phe



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<210> 2587
<211> 320
<212> PRT
<213> Unknown (1041044-dir-3-13 conceptual translation of range 488-1447)
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1571

195	200	205
Leu Val Val Pro Leu Ser	Leu Ile Leu Val Ser	Tyr Gly Ala Ile Thr
210	215	220
Trp Ala Val Leu Arg Ile	Asn Ser Ala Thr Ala	Trp Arg Lys Ala Phe
225	230	235
Gly Thr Cys Ser Ser His	Leu Thr Val Val Thr	Leu Phe Tyr Ser Ser
245	250	255
Val Ile Ala Val Tyr Leu	Gln Pro Lys Asn Pro	Tyr Ala Gln Gly Arg
260	265	270
Gly Lys Phe Phe Gly Leu	Phe Tyr Ala Val Gly	Thr Pro Ser Leu Asn
275	280	285
Pro Leu Val Tyr Thr Leu	Arg Asn Lys Glu Ile	Lys Arg Ala Leu Arg
290	295	300
Arg Leu Leu Gly Lys Glu	Arg Asp Ser Arg Glu	Ser Trp Arg Ala Ala
305	310	315
		320

&lt;210&gt; 2588

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (3093312-dir-1364-13 conceptual translation of range 136584-137530)

&lt;400&gt;2588

Val Ala Met Ile Ile Ile	Cys Asn Asp Ser His Ser	Asp Phe Ile Leu
1	5	10
Leu Gly Phe Ser Asn Lys	Pro His Leu Glu Lys Ile	Leu Phe Val Ile
20	25	30
Ile Phe Ile Phe Tyr Phe	Leu Thr Leu Ala Gly Asn	Met Val Ile Val
35	40	45
Leu Val Ser Leu Lys Asp	Pro Lys Leu His Ile Pro	Met Tyr Phe Phe
50	55	60
Leu Ser Asn Leu Ser Leu	Val Asp Leu Cys Leu Thr	Ser Ser Cys Val
65	70	75
Pro Gln Met Leu Ile Asn	Phe Trp Gly Pro Glu Lys	Thr Ile Ser Tyr
85	90	95
Ile Gly Cys Ala Ile Gln	Leu Tyr Val Phe Leu Trp	Leu Gly Ala Thr
100	105	110
Glu Tyr Val Leu Leu Val	Val Met Ala Val Asp Cys	Tyr Val Ala Val
115	120	125
Cys His Pro Leu Gln Asn	Thr Met Ile Met His Pro	Lys Leu Cys Leu
130	135	140
Gln Leu Ala Ile Leu Ala	Trp Gly Thr Gly Leu Ala	Gln Ser Leu Ile
145	150	155
Gln Ser Pro Ala Thr Leu	Arg Leu Pro Phe Cys Ser	Gln Arg Met Val
165	170	175
Asp Asp Val Val Cys Glu	Val Pro Ala Leu Ile Gln	Leu Ser Ser Thr
180	185	190
Asp Thr Thr Tyr Ser Glu	Ile Gln Met Ser Ile Ala	Ser Val Val Leu
195	200	205
Leu Val Met Pro Leu Ile	Ile Ile Leu Ser Ser Ser	Gly Ala Ile Ala
210	215	220
Lys Ala Val Leu Arg Ile	Lys Ser Thr Ala Gly Gln	Lys Lys Ala Phe
225	230	235
Gly Thr Cys Ile Ser His	Leu Leu Val Val Ser Leu	Phe Tyr Gly Thr
245	250	255
Val Thr Gly Val Tyr Leu	Gln Pro Lys Asn His Tyr	Pro His Glu Trp
260	265	270
Gly Lys Phe Leu Thr Leu	Phe Tyr Thr Val Val Thr	Pro Thr Leu Asn
275	280	285
Pro Leu Ile Tyr Thr Leu	Arg Asn Lys Glu Val Lys	Gly Ala Leu Ile
290	295	300

Arg Leu Gly Arg Arg Thr Trp Asp Ser Gln Asn Asn  
305 310 315

<210> 2589

<211> 348

<212> PRT

<213> Unknown (5262456-dir-612-12 conceptual translation of range 61285-62326)

<220>

<221> VARIANT

<222> (1)...(348)

<223> Xaa = Any Amino Acid

<400>2589

Leu	Ile	Phe	Cys	Pro	Met	Ala	Asn	Thr	Leu	Ser	Ser	Leu	Asn	Ser	Cys
1				5					10					15	
Asn	Val	Phe	Leu	Val	Leu	Asn	Arg	Val	Met	Gly	Met	Thr	Asn	Ser	
		20					25						30		
Ser	Val	Lys	Gly	Asp	Phe	Ile	Leu	Val	Gly	Phe	Ser	His	Gln	Pro	His
		35					40					45			
Leu	Glu	Lys	Ile	Leu	Phe	Val	Ala	Val	Leu	Ile	Ser	Tyr	Leu	Leu	Thr
	50					55					60				
Leu	Val	Gly	Asn	Thr	Val	Ile	Ile	Leu	Ile	Cys	Ser	Val	Asp	Pro	Lys
65					70					75					80
Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu	Ser	Leu	Val	Asp
				85					90					95	
Ile	Cys	Phe	Thr	Thr	Ser	Ile	Val	Pro	Gln	Leu	Leu	Trp	Asn	Leu	Lys
			100					105					110		
Gly	Pro	Asp	Lys	Thr	Ile	Thr	Phe	Leu	Gly	Cys	Val	Ile	Gln	Leu	Tyr
		115						120				125			
Ile	Ser	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Cys	Val	Leu	Leu	Ala	Val	Met
	130					135					140				
Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu	His	Tyr	Thr	Ala
145					150					155					160
Val	Met	Asn	Pro	Gln	Leu	Cys	Gln	Ala	Leu	Ala	Gly	Val	Ala	Trp	Leu
				165					170					175	
Ser	Gly	Val	Gly	Asn	Thr	Leu	Ile	Gln	Gly	Thr	Val	Thr	Leu	Trp	Leu
		180						185					190		
Pro	Arg	Cys	Gly	His	Arg	Leu	Leu	Gln	His	Phe	Phe	Cys	Glu	Val	Pro
	195					200						205			
Ser	Met	Ile	Lys	Leu	Ala	Cys	Val	Asp	Ile	His	Asp	Asn	Glu	Val	Gln
	210				215						220				
Leu	Phe	Val	Ala	Ser	Leu	Val	Leu	Leu	Leu	Leu	Pro	Leu	Val	Leu	Ile
225					230					235					240
Leu	Leu	Ser	Tyr	Gly	His	Ile	Ala	Lys	Val	Val	Ile	Arg	Ile	Lys	Ser
			245						250					255	
Val	Gln	Ala	Trp	Cys	Lys	Gly	Leu	Gly	Thr	Cys	Gly	Ser	His	Leu	Ile
		260						265					270		
Val	Val	Ser	Leu	Phe	Cys	Gly	Thr	Ile	Thr	Ala	Val	Tyr	Ile	Gln	Ser
		275					280					285			
Asn	Ser	Ser	Tyr	Ala	His	Ala	His	Gly	Lys	Phe	Ile	Ser	Leu	Phe	Tyr
	290					295					300				
Thr	Val	Val	Thr	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn
305					310					315					320
Asn	Asp	Val	Lys	Gly	Ala	Leu	Arg	Leu	Phe	Asn	Arg	Asp	Leu	Gly	Thr
				325					330					335	
Xaa	Lys	Met	Lys	Gln	Ser	Thr	Gln	Arg	Ser	Thr	Phe				
			340					345							

<210> 2590

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (200153-dir-0-11 conceptual translation of range 1-936)

&lt;400&gt;2590

```

Met Glu Val Asp Ser Asn Ser Ser Ser Gly Thr Phe Ile Leu Met Gly
1      5      10      15
Val Ser Asp His Pro His Leu Glu Ile Ile Phe Phe Ala Val Ile Leu
20      25      30
Ala Ser Tyr Leu Leu Thr Leu Val Gly Asn Leu Thr Ile Ile Leu Leu
35      40      45
Ser Arg Leu Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50      55      60
Asn Leu Ser Ser Leu Asp Leu Ala Phe Thr Thr Ser Ser Val Pro Gln
65      70      75      80
Met Leu Lys Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Tyr Gly Gly
85      90      95
Cys Val Thr Gln Leu Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Cys
100     105     110
Ile Leu Leu Val Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Arg
115     120     125
Pro Leu His Tyr Met Thr Val Met Asn Pro Arg Leu Cys Trp Gly Leu
130     135     140
Ala Ala Ile Ser Trp Leu Gly Gly Leu Gly Asn Ser Val Ile Gln Ser
145     150     155     160
Thr Phe Thr Leu Gln Leu Pro Phe Cys Gly His Arg Lys Val Asp Asn
165     170     175
Phe Leu Cys Glu Val Pro Ala Met Ile Lys Leu Ala Cys Gly Asp Thr
180     185     190
Ser Leu Asn Glu Ala Val Leu Asn Gly Val Cys Thr Phe Phe Thr Val
195     200     205
Val Pro Val Ser Val Ile Leu Val Ser Tyr Cys Phe Ile Ala Gln Ala
210     215     220
Val Met Lys Ile Arg Ser Val Glu Gly Arg Arg Lys Ala Phe Asn Thr
225     230     235     240
Cys Val Ser His Leu Val Val Val Phe Leu Phe Tyr Gly Ser Ala Ile
245     250     255
Tyr Gly Tyr Leu Leu Pro Ala Lys Ser Ser Asn Gln Ser Gln Gly Lys
260     265     270
Phe Ile Ser Leu Phe Tyr Ser Val Val Thr Pro Met Val Asn Pro Leu
275     280     285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Gly Arg Leu
290     295     300
Leu Gly Lys Gly Arg Gly Ala Ser
305     310

```

&lt;210&gt; 2591

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Unknown (902728-dir-0-6 conceptual translation of range 2-472)

&lt;400&gt;2591

```

Val Cys Arg Pro Leu His Tyr Met Thr Val Met Asn Pro Arg Leu Cys
1      5      10      15
Trp Val Leu Ala Ala Ile Ser Trp Leu Gly Gly Leu Gly Asn Ser Val
20      25      30
Ile Gln Ser Thr Phe Thr Leu Gln Leu Pro Phe Cys Gly His Arg Lys
35      40      45
Val Asp Asn Phe Leu Cys Glu Val Pro Ala Met Ile Lys Leu Ala Cys
50      55      60
Gly Asp Thr Ser Leu Asn Glu Ala Val Leu Asn Gly Val Cys Thr Phe

```

65					70					75				80
Phe	Thr	Ala	Val	Pro	Leu	Ser	Ile	Ile	Leu	Val	Ser	Tyr	Cys	Phe Ile
				85					90				95	
Ala	Gln	Ala	Val	Met	Lys	Ile	Arg	Ser	Val	Glu	Gly	Arg	Arg	Lys Ala
			100					105					110	
Phe	Asn	Thr	Cys	Val	Ser	His	Leu	Val	Val	Val	Phe	Leu	Phe	Tyr Gly
		115					120					125		
Ser	Ala	Ile	Tyr	Gly	Tyr	Leu	Leu	Pro	Ala	Lys	Ser	Ser	Asn	Gln Asp
	130					135					140			
Gln	Gly	Lys	Phe	Ile	Ser	Leu	Phe	Tyr	Ser	Val	Val	Thr		
145					150					155				

&lt;210&gt; 2592

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (p146-dir-0-11 conceptual translation of range 1-936)

&lt;400&gt;2592

Met	Asp	Gly	Val	Asn	Asp	Ser	Ser	Leu	Gln	Gly	Phe	Val	Leu	Met	Ser
1				5					10				15		
Ile	Ser	Asp	His	Pro	Gln	Leu	Glu	Met	Ile	Phe	Phe	Ile	Ala	Ile	Leu
		20					25						30		
Phe	Ser	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Ser	Thr	Ile	Ile	Leu	Leu
	35					40						45			
Ser	Arg	Leu	Glu	Ala	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Ser	Leu	Asp	Leu	Ala	Phe	Ala	Thr	Ser	Ser	Val	Pro	Gln
65				70					75					80	
Met	Leu	Ile	Asn	Leu	Trp	Gly	Pro	Gly	Lys	Thr	Ile	Ser	Tyr	Gly	Gly
			85					90					95		
Cys	Ile	Thr	Gln	Leu	Tyr	Val	Phe	Leu	Trp	Leu	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Ile	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Arg
		115				120						125			
Pro	Leu	Arg	Tyr	Thr	Ala	Ile	Met	Asn	Pro	Gln	Leu	Cys	Trp	Leu	Leu
	130					135					140				
Ala	Val	Ile	Ala	Trp	Leu	Gly	Gly	Leu	Gly	Asn	Ser	Val	Ile	Gln	Ser
145				150					155					160	
Thr	Phe	Thr	Leu	Gln	Leu	Pro	Leu	Cys	Gly	His	Arg	Arg	Val	Glu	Gly
			165					170						175	
Phe	Leu	Cys	Glu	Val	Pro	Ala	Met	Ile	Lys	Leu	Ala	Cys	Gly	Asp	Thr
		180					185						190		
Ser	Leu	Asn	Gln	Ala	Val	Leu	Asn	Gly	Val	Cys	Thr	Phe	Phe	Thr	Ala
	195					200						205			
Val	Pro	Leu	Ser	Ile	Ile	Val	Ile	Ser	Tyr	Cys	Leu	Ile	Ala	Gln	Ala
	210					215					220				
Val	Leu	Lys	Ile	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Asn	Thr
225				230					235					240	
Cys	Leu	Ser	His	Leu	Val	Val	Phe	Leu	Phe	Tyr	Gly	Ser	Ala	Ser	
			245					250					255		
Tyr	Gly	Tyr	Leu	Leu	Pro	Ala	Lys	Asn	Ser	Lys	Gln	Asp	Gln	Gly	Lys
		260					265						270		
Phe	Ile	Ser	Leu	Phe	Tyr	Ser	Leu	Val	Thr	Pro	Met	Val	Asn	Pro	Leu
	275					280						285			
Ile	Tyr	Thr	Leu	Arg	Asn	Met	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Leu
	290				295						300				
Leu	Gly	Lys	Gly	Arg	Glu	Val	Gly								
305					310										

&lt;210&gt; 2593

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921701-dir-0-8 conceptual translation of range 2-648)

&lt;400&gt;2593

```

Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln Met Leu Val
 1          5          10          15
Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly Cys Val Ala
 20          25          30
Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr Leu Leu Leu
 35          40          45
Ala Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg Pro Leu His
 50          55          60
Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu Ala Ala Ala
 65          70          75          80
Ser Arg Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser Thr Leu Thr
 85          90          95
Leu Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His Phe Leu Cys
100          105          110
Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr Thr Ala Asn
115          120          125
Glu Ala Glu Leu Phe Leu Val Ser Glu Leu Phe His Leu Ile Pro Leu
130          135          140
Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala Val Leu Arg
145          150          155          160
Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr Cys Gly Ser
165          170          175
His Leu Ile Val Val Ser Leu Phe Lys Gly Thr Ala Val Ser Val Tyr
180          185          190
Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys Met Val Ser
195          200          205
Leu Phe Tyr Gly Ile Ile Ala Pro
210          215

```

&lt;210&gt; 2594

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921699-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2594

```

Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln Met Leu Val
 1          5          10          15
Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly Cys Val Ala
 20          25          30
Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr Leu Leu Leu
 35          40          45
Ala Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg Pro Leu His
 50          55          60
Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu Ala Ala Ala
 65          70          75          80
Ser Trp Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser Thr Leu Thr
 85          90          95
Leu Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His Phe Leu Cys
100          105          110
Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr Thr Ala Asn
115          120          125
Glu Ala Glu Leu Phe Leu Val Ser Glu Leu Phe His Leu Ile Pro Leu
130          135          140
Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala Val Leu Arg
145          150          155          160
Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr Cys Gly Ser
165          170          175

```

His Leu Ile Val Val Ser Leu Phe Tyr Ser Thr Ala Val Ser Val Tyr  
                   180                  185                  190  
 Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys Met Val Ser  
                   195                  200                  205  
 Leu Phe Tyr Gly Ile Ile Ala Pro  
           210                          215

&lt;210&gt; 2595

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921706-dir-0-8 conceptual translation of range 2-646)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(215)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2595

Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln Met Leu Val  
   1                  5                  10                  15  
 Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly Cys Val Ala  
                   20                  25                  30  
 Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr Leu Leu Leu  
                   35                  40                  45  
 Ala Val Thr Ser Leu Ile Gly Cys Ser Tyr Cys Arg Pro Leu His Tyr  
                   50                  55                  60  
 Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu Ala Ala Ala Ser  
   65                  70                  75                  80  
 Trp Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser Thr Leu Thr Leu  
                   85                  90                  95  
 Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His Phe Leu Cys Glu  
                   100                  105                  110  
 Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr Thr Ala Asn Glu  
                   115                  120                  125  
 Ala Glu Leu Phe Leu Asp Ser Glu Leu Phe His Leu Ile Pro Leu Thr  
                   130                  135                  140  
 Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala Val Leu Arg Ile  
   145                  150                  155                  160  
 Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr Cys Gly Ser His  
                   165                  170                  175  
 Leu Ile Val Val Ser Leu Phe Tyr Ser Thr Ala Val Ser Val Tyr Leu  
                   180                  185                  190  
 Xaa Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys Met Val Ser Leu  
                   195                  200                  205  
 Phe Tyr Gly Ile Ile Ala Pro  
           210                          215

&lt;210&gt; 2596

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Unknown (1142995-dir-0-5 conceptual translation of range 1-336)

&lt;400&gt;2596

Arg Pro Leu His Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln  
   1                  5                  10                  15  
 Leu Ala Ala Val Ser Trp Ile Ile Gly Phe Gly Asn Ser Val Trp Leu  
                   20                  25                  30  
 Ser Ile Leu Thr Leu Gln Leu Pro Arg Cys Gly His Tyr Val Ile Asp  
                   35                  40                  45  
 His Phe Leu Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp  
                   50                  55                  60

Val Thr Ala Asn Glu Ala Glu Leu Phe Phe Val Ser Val Phe Phe His  
 65 70 75 80  
 Leu Thr Pro Leu Ser Leu Ile Leu Thr Ser Tyr Ala Phe Ile Ala Arg  
 85 90 95  
 Ala Ile Leu Lys Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly  
 100 105 110

&lt;210&gt; 2597

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (3080457-rev-750-12 conceptual translation of range 75137-76079)

&lt;400&gt;2597

Asn Met Asn Trp Val Asn Lys Ser Val Pro Gln Glu Phe Ile Leu Leu  
 1 5 10 15  
 Val Phe Ser Asp Gln Pro Trp Leu Glu Ile Pro Pro Phe Val Met Phe  
 20 25 30  
 Leu Phe Ser Tyr Ile Leu Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu  
 35 40 45  
 Val Ser His Val Asp Phe Lys Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Ser Thr Val Pro  
 65 70 75 80  
 Gln Met Leu Val Asn Ile Cys Asn Thr Arg Lys Val Ile Ser Tyr Gly  
 85 90 95  
 Gly Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ser Thr Glu  
 100 105 110  
 Cys Leu Leu Leu Ala Val Met Cys Phe Asp Arg Phe Val Ala Ile Cys  
 115 120 125  
 Arg Pro Leu His Tyr Ser Ile Ile Met His Gln Arg Leu Cys Phe Gln  
 130 135 140  
 Leu Ala Ala Ala Ser Trp Ile Ser Gly Phe Ser Asn Ser Val Leu Gln  
 145 150 155 160  
 Ser Thr Trp Thr Leu Lys Met Pro Leu Cys Gly His Lys Glu Val Asp  
 165 170 175  
 His Phe Phe Cys Glu Val Pro Ala Leu Lys Leu Ser Cys Val Asp  
 180 185 190  
 Thr Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val Leu Phe Leu  
 195 200 205  
 Leu Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Gln  
 210 215 220  
 Ala Val Leu Arg Ile Gln Ser Ala Glu Gly Gln Arg Lys Ala Phe Gly  
 225 230 235 240  
 Thr Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala  
 245 250 255  
 Ile Ser Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Arg Gly  
 260 265 270  
 Lys Met Val Ser Leu Phe Cys Gly Ile Ile Ala Pro Met Leu Asn Pro  
 275 280 285  
 Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Lys Arg  
 290 295 300  
 Leu Leu Gln Arg Val Phe Leu Ile Lys Lys  
 305 310

&lt;210&gt; 2598

&lt;211&gt; 343

&lt;212&gt; PRT

&lt;213&gt; Unknown (506841-dir-0-12 conceptual translation of range 60-1090)

&lt;220&gt;



&lt;221&gt; VARIANT

&lt;222&gt; (1)...(343)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2598

```

Cys Ile Ile Tyr Met Ser Val Ala Asn Glu Ser Ile Ser Arg Glu Phe
 1           5           10           15
Ile Leu Leu Gly Phe Ser Asp Arg Pro Trp Leu Glu Leu Pro Leu Phe
          20           25           30
Val Val Phe Leu Val Ser Tyr Ile Leu Thr Ile Phe Gly Asn Met Met
          35           40           45
Ile Ile Leu Val Ser Arg Leu Asp Ser Lys Leu His Thr Pro Met Tyr
          50           55           60
Phe Phe Leu Thr Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Ser
65           70           75           80
Thr Val Pro Gln Met Leu Ile Asn Ile Cys Ser Thr Arg Lys Val Ile
          85           90           95
Ser Tyr Gly Gly Cys Val Val Gln Leu Phe Ile Phe Leu Ser Leu Gly
          100          105          110
Ser Thr Glu Cys Phe Leu Leu Gly Val Met Ser Leu Asp Arg Phe Leu
          115          120          125
Ala Ile Cys Arg Pro Leu His Tyr Ser Val Ile Met His Gln Arg Arg
          130          135          140
Cys Leu His Leu Ala Ala Cys Trp Ile Ser Gly Phe Ser Asn Ser
145          150          155          160
Val Leu Gln Ser Thr Trp Thr Leu Gln Met Pro Leu Cys Gly His Lys
          165          170          175
Glu Val Asp His Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser
          180          185          190
Cys Val Asp Thr Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val
          195          200          205
Leu Phe Leu Leu Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe
          210          215          220
Ile Val Gln Ala Val Leu Lys Ile Arg Ser Ala Glu Cys Arg Arg Lys
225          230          235          240
Ala Phe Gly Thr Cys Gly Ser His Leu Ile Val Val Val Leu Phe Tyr
          245          250          255
Gly Thr Ala Ile Tyr Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys
          260          265          270
Asp Arg Gly Lys Met Val Ser Leu Phe Tyr Gly Ile Ile Thr Pro Met
          275          280          285
Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Glu Glu Val Lys Gly Ala
          290          295          300
Phe Lys Arg Leu Met Lys Arg Ile Ile Leu Ile Gly Lys Xaa Gly Val
305          310          315          320
Pro Glu Xaa Xaa Pro Tyr Xaa Tyr Lys Tyr Ile Phe Ile Ala Cys Lys
          325          330          335
Leu Tyr Cys Phe Leu Leu Cys
          340

```

&lt;210&gt; 2599

&lt;211&gt; 348

&lt;212&gt; PRT

&lt;213&gt; Unknown (3093312-rev-75-13 conceptual translation of range 7680-8721)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(348)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2599

```

Leu Ile Ala Phe Leu Ser Tyr Ile Phe Leu Gly Val Arg Asn Lys Xaa
 1           5           10           15
Val Ile Met Asn Trp Glu Asn Glu Ser Ser Pro Lys Glu Phe Ile Leu
          20           25           30
Leu Gly Phe Ser Asp Arg Ala Trp Leu Gln Met Pro Leu Phe Val Val
          35           40           45
Leu Leu Ile Ser Tyr Thr Ile Thr Ile Phe Gly Asn Val Ser Ile Met
          50           55           60
Met Val Cys Ile Leu Asp Pro Lys Leu His Thr Pro Met Tyr Phe Phe
65           70           75           80
Leu Thr Asn Leu Ser Ile Leu Asp Leu Cys Tyr Thr Thr Thr Thr Val
          85           90           95
Pro His Met Leu Val Asn Ile Gly Cys Asn Lys Lys Thr Ile Ser Tyr
          100          105          110
Ala Gly Cys Val Ala His Leu Ile Ile Phe Leu Ala Leu Gly Ala Thr
          115          120          125
Glu Cys Leu Leu Leu Ala Val Met Ser Phe Asp Arg Tyr Val Ala Val
          130          135          140
Cys Arg Pro Leu His Tyr Val Val Ile Met Asn Tyr Trp Phe Cys Leu
145           150           155           160
Arg Met Ala Ala Phe Ser Trp Leu Ile Gly Phe Gly Asn Ser Val Leu
          165          170          175
Gln Ser Ser Leu Thr Leu Asn Met Pro Arg Cys Gly His Gln Glu Val
          180          185          190
Asp His Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Ala
          195          200          205
Asp Thr Lys Pro Ile Glu Ala Glu Leu Phe Phe Phe Ser Val Leu Ile
          210          215          220
Leu Leu Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Gly Phe Ile Ala
225           230           235           240
Gln Ala Val Leu Lys Ile Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe
          245          250          255
Gly Thr Cys Gly Ser His Met Ile Val Val Ser Leu Phe Tyr Gly Thr
          260          265          270
Ala Ile Tyr Met Tyr Leu Gln Pro Pro Ser Ser Thr Ser Lys Asp Trp
          275          280          285
Gly Lys Met Val Ser Leu Phe Tyr Gly Ile Ile Thr Ser Met Leu Asn
          290          295          300
Ser Leu Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala Phe Lys
305           310           315           320
Arg Leu Met Pro Arg Ile Phe Phe Cys Lys Lys Xaa Arg Ser Thr Pro
          325          330          335
Ser Val Met Arg Ile Phe Leu Val Phe Pro Tyr Leu
          340          345

```

&lt;210&gt; 2600

&lt;211&gt; 272

&lt;212&gt; PRT

&lt;213&gt; Unknown (5262456-rev-0-10 conceptual translation of range 184-1000)

&lt;400&gt;2600

```

Met Trp Ile Asn Asn Gln Ser Ser Leu Asp Asp Phe Ile Leu Leu Gly
 1           5           10           15
Phe Ser Asp Arg Pro Trp Leu Glu Thr Pro Leu Val Ile Phe Leu Val
          20           25           30
Ala Tyr Ile Phe Ser Leu Phe Gly Asn Ile Ser Ile Ile Leu Val Ser
          35           40           45
His Leu Asp Pro Gln Leu Asp Ser Pro Met Tyr Phe Phe Val Ser Asn
          50           55           60
Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln Met
65           70           75           80

```

```

Leu Val Asn Leu Arg Gly Pro Glu Lys Thr Ile Ser Tyr Gly Gly Cys
      85      90
Val Ala Gln Leu Tyr Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys Ile
      100      105      110
Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Lys Pro
      115      120      125
Leu His Tyr Pro Val Ile Met Asn His Arg Arg Cys Ile His Met Ala
      130      135      140
Ala Gly Thr Trp Ile Ser Gly Phe Ala Asn Ser Leu Val Gln Ser Thr
      145      150      155      160
Leu Thr Val Val Ala Pro Arg Cys Gly Gln Arg Val Leu Asp His Phe
      165      170      175
Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ala Cys Ile Asp Ile Arg
      180      185      190
Val Asn Glu Met Glu Leu Asn Val Leu Gly Ala Leu Leu Leu Met
      195      200      205
Pro Leu Thr Leu Ile Leu Gly Thr Tyr Val Phe Ile Ala Gln Ala Val
      210      215      220
Met Arg Ile Cys Ser Ala Glu Ser Arg Trp Lys Ala Phe Asn Thr Cys
      225      230      235      240
Ala Ser His Leu Leu Val Val Ser Leu Phe Tyr Phe Thr Ala Ile Ser
      245      250      255
Met Tyr Val Gln Pro Pro Ser Ser Tyr Ser His Asp Arg Gly Lys Ile
      260      265      270

```

&lt;210&gt; 2601

&lt;211&gt; 350

&lt;212&gt; PRT

&lt;213&gt; Unknown (3093312-dir-1027-12 conceptual translation of range 102817-103865)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(350)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2601

```

Phe Leu Ser Gly Asn Arg Lys Xaa Met Met Met Glu Lys Xaa Asn Ala
  1      5      10
Ser Ser Glu Gly Tyr Phe Ile Leu Val Gly Phe Ser Asn Trp Pro Tyr
      20      25      30
Leu Glu Val Val Leu Phe Val Val Ile Leu Ile Phe Cys Leu Met Thr
      35      40      45
Leu Ile Gly Asn Leu Phe Ile Ile Ile Leu Thr Tyr Leu Asp Ser His
      50      55      60
Leu His Thr Pro Leu Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp
      65      70      75      80
Leu Cys Tyr Thr Thr Ser Ser Ile Pro Gln Leu Leu Val Ser Leu Trp
      85      90      95
Gly Val Glu Lys Thr Ile Ser Tyr Ala Gly Cys Met Val Gln Leu Tyr
      100      105      110
Phe Phe Leu Thr Leu Gly Thr Thr Glu Cys Val Leu Leu Val Val Met
      115      120      125
Ser Tyr Asp Arg Tyr Ala Ala Val Cys Arg Pro Leu His Tyr Thr Val
      130      135      140
Leu Met His Ser Arg Phe Cys His Leu Leu Ala Val Ala Ser Trp Val
      145      150      155      160
Ser Gly Phe Thr Asn Pro Ala Leu His Ser Ser Phe Thr Phe Trp Val
      165      170      175
Pro Leu Cys Gly His Arg Gln Ile Asp His Phe Phe Cys Glu Val Pro
      180      185      190

```

Ala Leu Leu Xaa Leu Ser Phe Val Asn Thr Arg Glu Asn Lys Leu Thr  
 195 200 205  
 Leu Met Ile Thr Ser Ser Ile Phe Val Leu Leu Leu Leu Thr Leu Ile  
 210 215 220  
 Phe Thr Ser Tyr Gly Ala Ile Ala Gln Ala Val Leu Arg Met Gln Ser  
 225 230 235 240  
 Thr Thr Gly Leu Gln Lys Val Phe Gly Thr Cys Gly Ala His His Met  
 245 250 255  
 Val Val Ser Leu Phe Phe Ile Pro Ala Met Cys Met Tyr Leu Gln Pro  
 260 265 270  
 Pro Ser Gly Asn Ser Gln Asp Gln Gly Lys Phe Ile Ala Leu Phe Tyr  
 275 280 285  
 Thr Val Val Thr Pro Ser Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn  
 290 295 300  
 Lys Asp Val Arg Gly Val Val Lys Arg Leu Arg Gly Trp Glu Xaa Ala  
 305 310 315 320  
 Cys Val Cys Val Ile Leu Thr Ile Xaa Trp Ser Leu Ser Ser Gln Xaa  
 325 330 335  
 Phe Ile His Leu Phe Ile Tyr Gln Pro Phe Phe Tyr Ser Leu  
 340 345 350

&lt;210&gt; 2602

&lt;211&gt; 205

&lt;212&gt; PRT

&lt;213&gt; Unknown (5262456-dir-273-9 conceptual translation of range 27452-28066)

&lt;400&gt;2602

Gln Lys Ile Ala Lys Met Ile Asn Asp Ser Tyr Phe Gly Trp Leu Met  
 1 5 10 15  
 Leu Leu Gly Phe Pro Gly Lys Pro Gln Leu Glu Met Ile Ile Ser Gly  
 20 25 30  
 Val Val Phe Phe Phe Tyr Ala Ile Ser Leu Met Gly Asn Met Val Leu  
 35 40 45  
 Ile Leu Leu Pro Leu Leu Asp Lys His Leu Gln Thr Pro Ile Tyr Phe  
 50 55 60  
 Phe Leu Arg Asn Leu Ala Ile Leu Asp Leu Cys Tyr Thr Thr Asn Ile  
 65 70 75 80  
 Val Pro Gln Met Leu Val Asn Ala Trp Gly Lys Asp Lys Lys Ile Thr  
 85 90 95  
 Phe Gly Gly Cys Ala Phe Gln Leu Phe Thr Asn Val Thr Leu Cys Thr  
 100 105 110  
 Val Glu Cys Met Leu Leu Ala Val Met Ser Tyr Asp Pro Phe Asn Ala  
 115 120 125  
 Val Cys Lys Pro Leu Asp Tyr Met Thr Ile Met Asn Pro Gln Leu Cys  
 130 135 140  
 Gln Gly Leu Val Ala Met Thr Trp Leu Ile Gly Val Thr Asn Cys Met  
 145 150 155 160  
 Ile Leu Ser Pro Cys Pro Val Ser Leu Pro Arg Cys Gly Asp His His  
 165 170 175  
 Leu Asp His Tyr Phe Cys Glu Ile Ser Ala Met Val Lys Ile Ala Cys  
 180 185 190  
 Gly Ala Thr Thr Val Met Glu Glu Thr Val Arg Val Lys  
 195 200 205

&lt;210&gt; 2603

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Unknown (2924249-rev-741-9 conceptual translation of range 74285-74912)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(210)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2603

```

Ser Val Lys Tyr Leu Asn Glu Ser Phe Pro Glu Asp Phe Ile Leu Met
 1           5           10           15
Gly Phe Val Lys Tyr Pro Trp Leu Asp Phe Leu Leu Phe Cys Val Leu
 20           25           30
Leu Thr Phe Tyr Met Phe Thr Leu Gly Asn Ser Ala Ile Ile Leu
 35           40           45
Val Ser Gln Leu Asp Ser Gln Leu His Ser Pro Met Tyr Phe Leu Leu
 50           55           60
Thr Ser Leu Ser Val Leu Tyr Leu Cys Phe Thr Thr Thr Thr Val Pro
 65           70           75           80
Gln Met Leu Phe Asn Leu Gly Gly Thr Asn Lys Asn Ile Thr Xaa Ile
 85           90           95
Gly Cys Met Ala Gln Ala Tyr Val Phe His Trp Leu Ala Cys Ile Glu
 100          105          110
Cys Val Leu Leu Gly Ile Val Ala Leu Asp Cys Tyr Val Ala Val Cys
 115          120          125
Lys Pro Pro Arg Tyr Thr Ile Ile Ile Asp His Lys Val Cys Leu His
 130          135          140
Leu Ser Ser Thr Ala Trp Leu Ile Gly Leu Ala Asn Ser Leu Leu Gln
 145          150          155          160
Ser Thr Ile Thr Ile Gln Leu Pro Leu Xaa Arg Cys Ile Ala Gln Ile
 165          170          175
Phe Leu Xaa Leu Glu Ser Val Thr Xaa Gln Ser Leu Thr Val Thr Tyr
 180          185          190
Leu Xaa Asp Leu Leu Gln His Ser Ile Xaa Gly Gln Leu His Ala Gly
 195          200          205
Glu Leu
 210

```

&lt;210&gt; 2604

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Unknown (4156137-rev-1191-9 conceptual translation of range 119253-119880)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(210)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2604

```

Ser Val Lys Tyr Leu Asn Glu Ser Phe Pro Glu Asp Phe Ile Leu Met
 1           5           10           15
Gly Phe Val Lys Tyr Pro Trp Leu Asp Phe Leu Leu Phe Cys Val Leu
 20           25           30
Leu Thr Phe Tyr Met Phe Thr Leu Gly Asn Ser Ala Ile Ile Leu
 35           40           45
Val Ser Gln Leu Asp Ser Gln Leu His Ser Pro Met Tyr Phe Leu Leu
 50           55           60
Thr Ser Leu Ser Val Leu Tyr Leu Cys Phe Thr Thr Thr Thr Val Pro
 65           70           75           80
Gln Met Leu Phe Asn Leu Gly Gly Thr Asn Lys Asn Ile Thr Xaa Ile
 85           90           95
Gly Cys Met Ala Gln Ala Tyr Val Phe His Trp Leu Ala Cys Thr Glu
 100          105          110
Cys Val Leu Leu Gly Ile Val Ala Leu Asp Cys Tyr Val Ala Val Cys
 115          120          125

```

Lys Pro Pro Arg Tyr Thr Ile Ile Ile Asp His Lys Val Tyr Leu His  
 130 135 140  
 Leu Ser Ser Thr Ala Trp Leu Ile Gly Leu Ala Asn Ser Leu Leu Gln  
 145 150 155 160  
 Ser Thr Ile Thr Ile Gln Leu Pro Leu Xaa Arg Cys Ile Ala Gln Ile  
 165 170 175  
 Phe Leu Xaa Leu Glu Ser Val Thr Xaa Gln Ser Leu Thr Val Thr Tyr  
 180 185 190  
 Leu Xaa Asp Leu Leu Gln His Ser Ile Xaa Gly Gln Leu His Ala Gly  
 195 200 205  
 Glu Leu  
 210

&lt;210&gt; 2605

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921643-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2605

Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro Gln Leu Leu Ala  
 1 5 10 15  
 His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser Cys Ala Ala  
 20 25 30  
 Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe Val Leu Leu  
 35 40 45  
 Ala Val Met Gly Tyr Asp Arg Tyr Val Ala Val Cys Asp Ala Leu Arg  
 50 55 60  
 Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu Ala Ile Thr  
 65 70 75 80  
 Ser Trp Val Ser Gly Phe Ile Ser Ser Pro Val Gln Thr Ala Ile Thr  
 85 90 95  
 Phe Gln Leu Pro Met Cys Arg Asn Lys Phe Ile Asp His Ile Ser Cys  
 100 105 110  
 Glu Leu Leu Ala Val Val Arg Leu Ala Arg Val Asp Thr Ser Ser Asn  
 115 120 125  
 Glu Val Thr Ile Met Val Ser Ser Ile Val Leu Leu Met Thr Pro Phe  
 130 135 140  
 Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr Ile Leu Lys  
 145 150 155 160  
 Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr Cys Ala Ser  
 165 170 175  
 His Leu Thr Val Val Ala Leu Cys Tyr Gly Val Ala Ile Phe Thr Tyr  
 180 185 190  
 Ile Gln Pro His Ser Ser Pro Ser Val Leu Gln Glu Lys Leu Phe Ser  
 195 200 205  
 Val Phe Tyr Ala Ile Leu Thr Pro  
 210 215

&lt;210&gt; 2606

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921711-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2606

Leu Val Asp Val Ser Cys Ala Thr Ser Val Val Pro Gln Leu Leu Ala  
 1 5 10 15  
 His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser Cys Ala Ala  
 20 25 30  
 Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe Val Leu Leu  
 35 40 45  
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asp Ala Leu Arg

50	55	60
Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu Ala Ile Thr		
65	70	75
Ser Trp Val Ser Gly Phe Ile Ser Ser Pro Val Gln Thr Ala Ile Thr		80
	85	90
Phe Gln Leu Pro Met Cys Arg Asn Lys Phe Ile Asp His Ile Ser Cys		95
	100	105
Glu Leu Leu Ala Val Val Arg Leu Ala Cys Val Asp Thr Ser Ser Asn		110
	115	120
Glu Val Thr Ile Met Val Ser Ser Ile Val Leu Leu Met Thr Pro Phe		125
	130	135
Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr Ile Leu Lys		140
145	150	155
Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr Cys Ala Ser		160
	165	170
His Leu Thr Val Val Ala Leu Cys Tyr Gly Val Ala Ile Phe Thr Tyr		175
	180	185
Ile Gln Pro His Ser Ser Pro Ser Val Leu Gln Glu Lys Leu Phe Ser		190
	195	200
Val Phe Tyr Ala Ile Leu Thr Pro		205
210	215	

&lt;210&gt; 2607

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (1336042-dir-0-11 conceptual translation of range 1-951)

&lt;400&gt;2607

Met Gly Thr Asp Asn Gln Thr Trp Val Ser Glu Phe Ile Leu Leu Gly	
1	5
Leu Ser Ser Asp Trp Asp Thr Arg Val Ser Leu Phe Val Leu Phe Leu	10
	20
Val Met Tyr Val Val Thr Val Leu Gly Asn Cys Leu Ile Val Leu Leu	25
	30
Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr	35
	40
Asn Leu Ser Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro Gln	45
65	50
Leu Leu Ala His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser	55
	60
Cys Ala Ala Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe	65
	70
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asp	75
	80
Ala Leu Arg Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu	85
	90
Ala Ile Thr Ser Trp Val Ser Gly Phe Ile Ser Ser Pro Val Gln Thr	95
145	100
Ala Ile Thr Phe Gln Leu Pro Met Cys Arg Asn Lys Phe Ile Asp His	105
	110
Ile Ser Cys Glu Leu Leu Ala Val Val Arg Leu Ala Cys Val Asp Thr	115
	120
Ser Ser Asn Glu Val Thr Ile Met Val Ser Ser Ile Val Leu Leu Met	125
	130
Thr Pro Leu Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr	135
	140
Ile Leu Lys Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr	145
225	150
Cys Ala Ser His Leu Thr Val Val Ala Leu Cys Tyr Gly Val Ala Ile	155
	160
Phe Thr Tyr Ile Gln Pro His Ser Ser Pro Ser Val Leu Gln Glu Lys	165
	170
	175
	180
	185
	190
	195
	200
	205
	210
	215
	220
	225
	230
	235
	240
	245
	250
	255

			260					265					270			
Leu	Phe	Ser	Val	Phe	Tyr	Ala	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Met	
			275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Trp	Gln	Lys	Leu	
			290					295				300				
Leu	Trp	Lys	Phe	Ser	Gly	Leu	Thr	Ser	Lys	Leu	Ala	Thr				
305						310					315					

<210> 2608

<211> 216

<212> PRT

<213> Unknown (2921713-dir-0-8 conceptual translation of range 2-649)

<400>2608

Leu 1	Val	Asp	Val	Ser 5	Tyr	Ala	Thr	Ser	Val 10	Val	Pro	Gln	Leu	Leu 15	Ala
His	Phe	Leu	Ala 20	Glu	His	Lys	Ala 25	Thr	Pro	Phe	Gln	Ser	Cys 30	Ala 15	Ala
Gln	Leu	Phe 35	Phe	Ser	Leu	Ala 40	Leu	Gly 45	Gly	Ile	Glu	Phe	Val	Leu 15	Leu
Ala	Val 50	Met	Thr	Tyr	Asp 55	Arg	Tyr	Val	Ala	Val	Cys 60	Asp	Ala	Leu	Arg
Tyr 65	Ser	Ala	Ile	Met 70	His	Gly	Gly	Leu	Cys	Ala 75	Arg	Leu	Ala	Ile 80	Thr
Ser	Trp	Val	Ser	Gly 85	Phe	Ile	Ser	Ser 90	Pro	Val	Gln	Thr	Ala 95	Ile 80	Thr
Phe	Gln	Leu	Pro 100	Met	Cys	Arg	Asn	Lys 105	Phe	Ile	Asp	His	Ile 110	Ser 95	Cys
Glu	Leu	Leu 115	Ala	Val	Val	Arg	Leu 120	Ala	Cys	Val	Asp	Thr	Ser 125	Ser 110	Asn
Glu 130	Val	Thr	Ile	Met	Val	Ser	Ser	Val	Val	Leu	Leu 140	Met	Thr	Pro	Phe
Cys 145	Leu	Val	Leu	Leu 150	Ser	Tyr	Ile	Gln	Ile	Asn 155	Ser	Thr	Ile	Leu 160	Lys
Ile	Gln	Ser	Arg	Glu 165	Gly	Arg	Lys	Lys	Ala 170	Phe	His	Thr	Cys 175	Ala 160	Ser
His	Leu	Thr	Val	Val 180	Ala	Leu	Cys	Tyr 185	Gly	Val	Ala	Ile	Phe 190	Thr 175	Tyr
Ile	Gln	Pro 195	His	Ser	Ser	Pro	Ser 200	Val	Leu	Gln	Glu	Lys 205	Leu	Phe	Ser
Val	Phe 210	Tyr	Ala	Ile	Leu	Thr 215	Pro								

<210> 2609

<211> 301

<212> PRT

<213> Unknown (p161-dir-0-11 conceptual translation of range 2-903)

**<400>2609**

Trp 1	Val	Ser	Glu	Phe 5	Ile	Leu	Leu	Gly	Leu 10	Ser	Ser	Asp	Trp	Asp 15	Thr
Gln	Val	Ser	Leu 20	Phe	Val	Leu	Phe	Leu 25	Val	Met	Tyr	Val 30	Val	Thr	Val
Leu	Gly	Asn 35	Cys	Leu	Ile	Val	Leu 40	Leu	Ile	Arg	Leu 45	Asp	Ser	Arg	Leu
His	Thr 50	Pro	Met	Tyr	Phe	Phe 55	Leu	Thr	Asn	Leu 60	Ser	Leu	Val	Asp	Val
Ser 65	Tyr	Ala	Thr	Ser	Val 70	Val	Pro	Gln	Leu 75	Leu	Ala	His	Phe	Leu 80	Ala
Glu	His	Lys	Ala	Ile 85	Ser	Phe	Gln	Ser	Cys 90	Ala	Ala	Gln	Leu 95	Phe	Phe



```

Ser Leu Ala Leu Gly Gly Ile Glu Phe Val Leu Leu Ala Val Met Ala
      100      105      110
Tyr Asp Arg Tyr Val Ala Val Cys Asp Ala Leu Arg Tyr Ser Ala Ile
      115      120      125
Met His Gly Gly Leu Cys Ala Arg Leu Ala Ile Thr Ser Trp Val Ser
      130      135      140
Gly Phe Ile Asn Ser Leu Val Gln Thr Ala Ile Thr Phe Gln Leu Pro
      145      150      155
Met Cys Thr Asn Lys Phe Ile Asp His Ile Ser Cys Glu Leu Leu Ala
      165      170      175
Val Val Arg Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Val Thr Ile
      180      185      190
Met Val Ser Ser Ile Val Leu Leu Met Thr Pro Phe Cys Leu Val Leu
      195      200      205
Leu Ser Tyr Ile Gln Ile Thr Ser Thr Ile Leu Lys Ile Gln Ser Arg
      210      215      220
Glu Gly Arg Arg Lys Ala Phe His Thr Cys Ala Ser His Leu Thr Val
      225      230      235
Val Ala Leu Cys Tyr Gly Val Ala Ile Phe Thr Tyr Ile Gln Pro His
      245      250      255
Ser Ser Pro Ser Val Leu Gln Glu Lys Leu Phe Ser Val Phe Tyr Ala
      260      265      270
Ile Leu Thr Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn Lys
      275      280      285
Glu Val Lys Gly Ala Trp Gln Lys Leu Leu Trp Lys Phe
      290      295      300

```

&lt;210&gt; 2610

&lt;211&gt; 334

&lt;212&gt; PRT

&lt;213&gt; Unknown (3766130-dir-170-13 conceptual translation of range 17111-18112)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(334)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2610

```

Phe Cys Phe Phe Leu Thr Leu Ser Thr Asp Xaa Tyr Ser Ser His Phe
  1      5      10
Xaa Met Glu Ile Asp Asn Gln Thr Trp Val Arg Glu Phe Ile Leu Leu
      20      25      30
Gly Leu Ser Ser Asp Trp Cys Thr Gln Ile Ser Leu Phe Ser Leu Phe
      35      40      45
Leu Val Thr Tyr Leu Met Thr Val Leu Gly Asn Cys Leu Ile Val Leu
      50      55      60
Leu Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu
      65      70      75      80
Thr Asn Leu Ser Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro
      85      90      95
Gln Leu Leu Ala His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln
      100      105      110
Ser Cys Ala Ala Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu
      115      120      125
Phe Val Leu Leu Ala Val Met Ala Tyr Asp Arg His Val Ala Val Ser
      130      135      140
Asp Arg Leu Arg Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg
      145      150      155      160
Leu Ala Ile Thr Ser Trp Val Ser Gly Ser Ile Asn Ser Leu Val Gln
      165      170      175

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Thr Ala Ile Thr Phe Gln Leu Pro Met Cys Thr Asn Lys Phe Ile Asp
      180      185      190
His Ile Ser Cys Glu Leu Leu Ala Val Val Arg Leu Ala Cys Val Asp
      195      200      205
Thr Ser Ser Asn Glu Ala Ala Ile Met Val Ser Ser Ile Val Leu Leu
      210      215      220
Met Thr Pro Phe Cys Leu Val Leu Leu Ser Tyr Ile Arg Ile Ile Ser
      225      230      235      240
Thr Ile Leu Lys Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His
      245      250      255
Thr Cys Ala Ser His Leu Thr Val Val Ala Leu Cys Tyr Gly Thr Thr
      260      265      270
Ile Phe Thr Tyr Ile Gln Pro His Ser Gly Pro Ser Val Leu Gln Glu
      275      280      285
Lys Leu Ile Ser Val Phe Tyr Ala Ile Val Met Pro Leu Leu Asn Pro
      290      295      300
Val Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Trp His Lys
      305      310      315      320
Leu Leu Glu Lys Phe Ser Gly Leu Thr Ser Lys Leu Gly Thr
      325      330

```

&lt;210&gt; 2611

&lt;211&gt; 298

&lt;212&gt; PRT

&lt;213&gt; Unknown (p172-dir-0-10 conceptual translation of range 2-895)

&lt;400&gt;2611

```

Thr Ile Ile Leu Leu Gly Leu Ser Ser Asp Trp Asp Ala Gln Val Ser
  1      5      10      15
Leu Phe Val Leu Phe Leu Val Met Cys Met Val Thr Met Leu Gly Asn
      20      25      30
Cys Leu Ile Val Leu Leu Ile Arg Leu Asp Asn Arg Leu His Thr Pro
      35      40      45
Met Tyr Phe Phe Leu Thr Asn Leu Ser Leu Val Asp Val Ser Tyr Ala
      50      55      60
Thr Ser Ile Val Pro Gln Leu Leu Ala His Phe Leu Ala Glu His Lys
      65      70      75      80
Ser Ile Pro Phe Gln Ser Cys Ala Ala Gln Leu Phe Phe Ser Leu Ala
      85      90      95
Leu Gly Gly Ile Glu Phe Val Leu Leu Ala Val Met Ala Tyr Asp Arg
      100      105      110
Tyr Val Ala Val Cys Asp Pro Leu Arg Tyr Ser Ala Ile Met His Gly
      115      120      125
Ala Pro Cys Ala Arg Leu Ala Ile Thr Ser Trp Val Ser Gly Phe Ile
      130      135      140
Asn Ser Leu Val Gln Thr Ala Ile Thr Phe His Leu Pro Met Cys Thr
      145      150      155      160
Asn Lys Phe Ile Asp His Ile Ser Cys Glu Leu Leu Ala Val Ile Arg
      165      170      175
Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Ala Ala Ile Met Val Ser
      180      185      190
Ser Ile Val Phe Leu Met Thr Pro Phe Cys Leu Val Leu Leu Ser Tyr
      195      200      205
Ile Trp Ile Ile Ser Thr Ile Val Lys Ile Gln Ser Thr Glu Gly Arg
      210      215      220
Lys Lys Ala Phe His Thr Cys Ala Ser His Leu Thr Val Val Ala Leu
      225      230      235      240
Cys Tyr Gly Leu Ala Ile Phe Thr Tyr Ile Gln Pro His Ser Ser Leu
      245      250      255
Ser Val Leu Gln Glu Lys Leu Phe Ser Leu Phe Tyr Ala Ile Leu Thr
      260      265      270

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Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys  
           275                          280                          285  
 Gly Ala Trp Gln Lys Leu Leu Trp Lys Phe  
           290                          295

&lt;210&gt; 2612

&lt;211&gt; 298

&lt;212&gt; PRT

&lt;213&gt; Unknown (p171-dir-0-10 conceptual translation of range 3-896)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(298)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2612

Ser Asp Phe Ile Leu Leu Gly Leu Ser Ser Asp Trp Asp Ala Gln Val  
   1                          5                          10                          15  
 Ser Leu Phe Val Leu Phe Leu Val Met Tyr Met Val Thr Met Leu Gly  
           20                          25                          30  
 Asn Cys Leu Ile Val Leu Leu Ile Arg Leu Asp Asn Arg Leu His Thr  
           35                          40                          45  
 Pro Met Tyr Phe Phe Leu Thr Asn Leu Ser Leu Val Asp Val Ser Tyr  
           50                          55                          60  
 Ala Thr Ser Ile Val Pro Gln Leu Leu Ala His Phe Leu Ala Glu His  
   65                          70                          75                          80  
 Lys Ser Ile Pro Phe Gln Ser Cys Ala Ala Gln Leu Phe Phe Ser Leu  
           85                          90                          95  
 Ala Leu Gly Gly Ile Glu Phe Val Leu Leu Ala Val Met Ala Tyr Asp  
           100                          105                          110  
 Arg Tyr Val Ala Val Cys Asp Pro Leu Arg Tyr Ser Ala Ile Met His  
           115                          120                          125  
 Gly Ala Leu Cys Ala Arg Leu Ala Ile Thr Ser Trp Val Ser Gly Phe  
   130                          135                          140  
 Ile Asn Ser Leu Val Gln Thr Ala Ile Thr Phe His Leu Pro Met Cys  
  145                          150                          155                          160  
 Thr Asn Lys Phe Ile Asp His Ile Ser Cys Glu Leu Leu Ala Val Ile  
           165                          170                          175  
 Arg Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Ala Ala Ile Met Val  
           180                          185                          190  
 Ser Ser Ile Val Phe Leu Met Thr Pro Phe Cys Leu Val Leu Leu Ser  
           195                          200                          205  
 Tyr Ile Xaa Ile Ile Ser Thr Ile Val Lys Ile Gln Ser Thr Glu Gly  
   210                          215                          220  
 Arg Lys Lys Ala Phe His Thr Tyr Ala Ser His Leu Thr Val Val Ala  
  225                          230                          235                          240  
 Leu Cys Tyr Gly Leu Ala Ile Phe Thr Tyr Ile Gln Pro His Ser Ser  
           245                          250                          255  
 Leu Ser Val Leu Gln Glu Lys Leu Phe Ser Leu Phe Tyr Ala Ile Leu  
           260                          265                          270  
 Thr Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn Lys Glu Val  
           275                          280                          285  
 Lys Gly Ala Trp Gln Lys Leu Leu Trp Lys  
           290                          295

&lt;210&gt; 2613

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Unknown (p173-dir-0-11 conceptual translation of range 4-900)

&lt;400&gt;2613

```

Val Thr Ile Ile Leu Leu Gly Leu Ser Ser Asp Trp Asp Ala Gln Val
 1      5      10      15
Ser Leu Phe Val Leu Phe Leu Val Met Tyr Met Val Thr Met Leu Gly
 20      25      30
Asn Cys Leu Ile Val Leu Leu Ile Arg Leu Asp Asn Arg Leu His Thr
 35      40      45
Pro Met Tyr Phe Phe Leu Thr Asn Leu Ser Leu Val Asp Val Ser Tyr
 50      55      60
Ala Ile Ser Ile Val Pro Gln Leu Leu Ala His Phe Leu Ala Glu His
 65      70      75      80
Lys Ala Ile Ser Leu Gln Ser Cys Ala Ala Gln Leu Phe Phe Ser Leu
 85      90      95
Ala Leu Gly Gly Ile Glu Phe Val Leu Leu Ala Val Met Ala Tyr Asp
 100      105      110
Arg Tyr Val Ala Val Cys Asp Pro Leu Arg Tyr Ser Ala Ile Met His
 115      120      125
Gly Ala Leu Cys Ala Arg Leu Ala Ile Thr Ser Trp Val Ser Gly Phe
 130      135      140
Ile Asn Ser Leu Val Gln Thr Ala Ile Thr Phe His Leu Pro Met Cys
 145      150      155      160
Thr Asn Lys Phe Ile Asp His Ile Ser Cys Glu Leu Leu Ala Val Ile
 165      170      175
Arg Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Ala Ala Ile Met Val
 180      185      190
Ser Ser Ile Val Phe Leu Met Thr Pro Phe Cys Leu Val Leu Leu Ser
 195      200      205
Tyr Ile Trp Ile Ile Ser Thr Ile Val Lys Ile Gln Ser Thr Glu Gly
 210      215      220
Arg Lys Lys Ala Phe His Thr Cys Ala Ser His Leu Thr Val Val Ala
 225      230      235      240
Leu Cys Tyr Gly Leu Ala Ile Phe Thr Tyr Ile Gln Pro His Ser Ser
 245      250      255
Leu Ser Val Leu Gln Glu Lys Leu Phe Ser Leu Phe Tyr Ala Ile Leu
 260      265      270
Thr Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn Lys Glu Val
 275      280      285
Lys Gly Ala Trp Gln Lys Leu Leu Trp Lys Phe
 290      295

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&lt;210&gt; 2614

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Unknown (p142-dir-0-11 conceptual translation of range 2-900)

&lt;400&gt;2614

```

Val Ser Glu Phe Ile Leu Leu Gly Leu Ser Ser Asp Trp Asp Thr Gln
 1      5      10      15
Val Ser Leu Phe Val Leu Phe Leu Val Met Tyr Val Val Thr Val Leu
 20      25      30
Gly Asn Cys Leu Ile Val Leu Leu Ile Arg Leu Asp Ser Arg Leu His
 35      40      45
Thr Pro Met Tyr Phe Phe Leu Thr Asn Leu Ser Leu Val Asp Val Ser
 50      55      60
Tyr Ala Thr Ser Ile Val Pro Gln Leu Leu Ala His Phe Leu Ala Glu
 65      70      75      80
His Lys Ala Ile Ser Phe Gln Ser Cys Ala Ala Gln Leu Phe Phe Ser
 85      90      95
Leu Ala Leu Gly Gly Ile Glu Phe Val Leu Leu Ala Val Met Ala Tyr
 100      105      110
Asp Arg Tyr Val Ala Val Cys Asp Pro Leu Arg Tyr Ser Ala Ile Met
 115      120      125

```

His Ala Ala Leu Cys Ala Arg Leu Ala Val Thr Ser Trp Val Ser Gly  
 130 135 140  
 Ser Ile Asn Ser Leu Val His Thr Thr Ile Thr Phe Gln Leu Pro Met  
 145 150 155 160  
 Cys Ala Asn Lys Phe Ile Asp His Ile Ser Cys Glu Ile Leu Ala Val  
 165 170 175  
 Val Arg Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Val Thr Ile Met  
 180 185 190  
 Val Phe Ser Ile Val Leu Leu Met Thr Pro Phe Cys Leu Val Leu Leu  
 195 200 205  
 Ser Tyr Ile Gln Ile Ile Ser Thr Ile Leu Lys Ile Gln Ser Arg Glu  
 210 215 220  
 Gly Arg Arg Lys Ala Phe Gln Thr Cys Gly Ser His Leu Thr Met Val  
 225 230 235 240  
 Ala Leu Cys Tyr Gly Val Ala Ile Phe Thr Tyr Ile Gln Pro His Ser  
 245 250 255  
 Ser Pro Ser Val Leu Gln Glu Lys Leu Ile Ser Leu Phe Tyr Ala Ile  
 260 265 270  
 Leu Thr Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Ser Lys Glu  
 275 280 285  
 Val Lys Gly Ala Trp Lys Lys Leu Tyr Trp Lys Phe  
 290 295 300

&lt;210&gt; 2615

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Unknown (p162-dir-0-10 conceptual translation of range 1-899)

&lt;400&gt;2615

Val Ser Glu Phe Ile Leu Leu Gly Leu Ser Ser Asp Trp Asp Thr Gln  
 1 5 10 15  
 Val Ser Leu Phe Val Leu Phe Leu Val Met Tyr Val Val Thr Val Leu  
 20 25 30  
 Gly Asn Cys Leu Ile Val Leu Leu Ile Arg Leu Asp Ser Arg Leu His  
 35 40 45  
 Thr Pro Met Tyr Phe Phe Leu Thr Asn Leu Ser Leu Val Asp Val Ser  
 50 55 60  
 Tyr Ala Thr Ser Ile Val Pro Gln Leu Leu Ala His Phe Leu Ala Glu  
 65 70 75 80  
 His Lys Ala Ile Ser Phe Gln Ser Cys Ala Ala Gln Leu Phe Phe Ser  
 85 90 95  
 Leu Ala Leu Gly Gly Ile Glu Phe Val Leu Leu Ala Val Met Ala Tyr  
 100 105 110  
 Asp Arg Tyr Val Ala Val Cys Asp Pro Leu Arg Tyr Ser Ala Ile Met  
 115 120 125  
 His Ala Ala Leu Cys Ala Arg Leu Ala Val Thr Ser Trp Val Ser Gly  
 130 135 140  
 Ser Ile Asn Ser Leu Ala His Thr Thr Ile Thr Phe Gln Leu Pro Met  
 145 150 155 160  
 Cys Ala Asn Lys Phe Ile Asp His Ile Ser Cys Glu Ile Leu Ala Val  
 165 170 175  
 Val Arg Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Val Thr Ile Met  
 180 185 190  
 Val Ser Ser Ile Val Leu Leu Met Thr Pro Phe Cys Leu Val Leu Leu  
 195 200 205  
 Ser Tyr Ile Gln Ile Ile Ser Thr Ile Leu Lys Ile Gln Ser Arg Glu  
 210 215 220  
 Gly Arg Arg Lys Ala Phe Gln Thr Cys Gly Ser His Leu Thr Val Val  
 225 230 235 240  
 Ala Leu Cys Tyr Gly Val Ala Ile Phe Thr Tyr Ile Gln Pro His Ser  
 245 250 255

Ser Pro Ser Val Leu Gln Glu Lys Leu Ile Ser Leu Phe Tyr Ala Thr  
                   260                  265                  270  
 Leu Thr Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn Lys Glu  
                   275                  280                  285  
 Val Lys Gly Ala Trp Lys Lys Leu Tyr Trp Lys Phe  
                   290                  295                  300

&lt;210&gt; 2616

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Unknown (p160-dir-0-11 conceptual translation of range 3-901)

&lt;400&gt;2616

Val Ser Glu Phe Ile Leu Leu Gly Leu Ser Ser Asp Trp Asp Thr Gln  
   1                  5                  10                  15  
 Val Ser Leu Phe Val Leu Phe Leu Val Met Tyr Val Val Thr Val Leu  
                   20                  25                  30  
 Gly Asn Cys Leu Ile Val Leu Leu Ile Arg Leu Asp Ser Arg Leu His  
                   35                  40                  45  
 Thr Pro Met Tyr Phe Phe Leu Thr Asn Leu Ser Leu Val Asp Val Ser  
                   50                  55                  60  
 Tyr Val Thr Ser Ile Val Pro Gln Leu Leu Ala His Phe Leu Ala Glu  
                   65                  70                  75                  80  
 His Lys Ala Ile Ser Phe Gln Ser Cys Ala Ala Gln Leu Phe Phe Ser  
                   85                  90                  95  
 Leu Ala Leu Gly Gly Ile Glu Phe Val Leu Leu Ala Val Met Ala Tyr  
                   100                  105                  110  
 Asp Arg Tyr Val Ala Val Cys Asp Pro Leu Arg Tyr Ser Ala Ile Met  
                   115                  120                  125  
 His Ala Ala Leu Cys Ala Arg Leu Ala Val Thr Ser Trp Val Ser Gly  
                   130                  135                  140  
 Ser Ile Asn Ser Leu Val His Thr Thr Thr Thr Phe Gln Leu Pro Met  
                   145                  150                  155                  160  
 Cys Ala Asn Lys Phe Ile Asp His Ile Ser Cys Glu Ile Leu Ala Val  
                   165                  170                  175  
 Val Arg Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Val Thr Ile Met  
                   180                  185                  190  
 Val Ser Ser Ile Val Leu Leu Met Thr Pro Phe Cys Leu Val Leu Leu  
                   195                  200                  205  
 Ser Tyr Ile Gln Ile Ile Ser Thr Ile Leu Lys Ile Gln Ser Arg Lys  
                   210                  215                  220  
 Gly Arg Arg Lys Ala Phe Gln Thr Cys Gly Ser His Leu Thr Val Val  
                   225                  230                  235                  240  
 Ala Leu Cys Tyr Gly Val Ala Ile Phe Thr Tyr Ile Gln Pro His Ser  
                   245                  250                  255  
 Asn Pro Ser Val Leu Gln Glu Lys Leu Ile Ser Leu Phe Tyr Ala Ile  
                   260                  265                  270  
 Leu Thr Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn Lys Glu  
                   275                  280                  285  
 Val Lys Gly Ala Trp Lys Lys Leu Tyr Trp Lys Phe  
                   290                  295                  300

&lt;210&gt; 2617

&lt;211&gt; 298

&lt;212&gt; PRT

&lt;213&gt; Unknown (p165-dir-0-10 conceptual translation of range 1-893)

&lt;400&gt;2617

Val Ser Glu Phe Ile Ile Leu Gly Leu Ser Ser Asp Trp Asp Thr Gln  
   1                  5                  10                  15  
 Val Ser Leu Phe Val Leu Phe Leu Val Met Tyr Met Val Thr Val Leu

```
<210> 2618
<211> 299
<212> PRT
<213> Unknown (p157-dir-0-10 conceptual translation of range 3-898)

<220>
<221> VARIANT
<222> (1)...(299)
<223> Xaa = Any Amino Acid
```

<400>2618															
Val	Ser	Glu	Phe	Ile	Ile	Leu	Gly	Leu	Ser	Ser	Asp	Trp	Asp	Thr	Gln
1				5					10					15	
Val	Ser	Leu	Phe	Val	Leu	Phe	Leu	Val	Met	Tyr	Val	Val	Thr	Val	Leu
			20					25					30		
Gly	Asn	Cys	Leu	Ile	Val	Leu	Leu	Ile	Arg	Leu	Asp	Ser	Arg	Leu	His
		35					40					45			
Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr	Asn	Leu	Ser	Leu	Val	Asp	Val	Ser
	50					55					60				
Tyr	Ala	Thr	Ser	Val	Val	Pro	Gln	Leu	Leu	Ala	His	Phe	Leu	Ala	Glu
65					70					75					80
His	Lys	Ala	Ile	Pro	Phe	Gln	Ser	Cys	Ala	Ala	Gln	Leu	Phe	Phe	Ser
			85						90					95	
Leu	Ala	Leu	Gly	Ile	Glu	Phe	Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	
			100				105					110			

```

Asp Arg Tyr Val Ala Val Cys Asp Pro Leu Arg Tyr Ser Ala Ile Met
115 120 125
His Ala Gly Leu Cys Ala Arg Leu Ala Val Thr Ser Trp Val Ser Gly
130 135 140
Ser Ile Asn Ser Leu Val His Thr Ala Ile Thr Phe Gln Leu Pro Arg
145 150 155 160
Cys Arg Asn Lys Phe Ile Glu His Ile Ser Cys Glu Ile Leu Ala Val
165 170 175
Ile Arg Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Val Thr Ile Met
180 185 190
Val Ser Ser Ile Val Leu Leu Met Thr Pro Phe Cys Leu Val Leu Leu
195 200 205
Ser Tyr Ile Gln Ile Ile Ser Thr Ile Leu Lys Ile Gln Ser Arg Glu
210 215 220
Gly Arg Arg Lys Ala Phe His Thr Cys Ala Ser His Leu Thr Val Val
225 230 235 240
Ala Leu Xaa Tyr Gly Val Ala Ile Phe Thr Xaa Ile Gln Pro His Ser
245 250 255
Ser Pro Ser Val Ile Gln Glu Lys Leu Phe Ser Leu Phe Tyr Ala Ile
260 265 270
Val Thr Pro Met Leu Asn Pro Met Ile Tyr Ser Ile Arg Asn Lys Glu
275 280 285
Val Lys Gly Ala Trp Gln Lys Ile Leu Trp Lys
290 295

```

&lt;210&gt; 2619

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Unknown (p174-dir-0-11 conceptual translation of range 4-900)

&lt;400&gt;2619

```

Val Thr Ile Ile Leu Leu Gly Leu Ser Ser Asp Trp Asp Ala Gln Val
1 5 10 15
Ser Leu Phe Val Leu Phe Leu Val Met Tyr Met Val Thr Met Leu Gly
20 25 30
Asn Cys Leu Ile Val Leu Leu Ile Arg Leu Asp Ser Arg Leu His Thr
35 40 45
Pro Met Tyr Phe Phe Leu Thr Asn Leu Ser Leu Val Asp Val Ser Tyr
50 55 60
Ala Thr Ser Ile Val Pro Gln Leu Leu Ala His Phe Leu Ala Glu His
65 70 75 80
Lys Ala Ile Ser Leu Gln Ser Cys Ala Ala Gln Leu Phe Phe Ser Leu
85 90 95
Ala Leu Gly Gly Ile Glu Phe Val Leu Leu Ala Val Met Ala Tyr Asp
100 105 110
Arg Tyr Val Ala Val Cys Asp Pro Leu Arg Tyr Ser Val Ile Met His
115 120 125
Gly Ala Leu Cys Ala Lys Leu Ala Ile Thr Ser Trp Val Ser Gly Ser
130 135 140
Ile Asn Ser Arg Met His Thr Thr Ile Thr Phe Gln Leu Pro Met Cys
145 150 155 160
Thr Asn Lys Phe Ile Asp His Ile Phe Cys Glu Ile Leu Ala Leu Ile
165 170 175
Arg Leu Ala Cys Val Asp Thr Ser Ser Asn Glu Val Thr Ile Ile Val
180 185 190
Ser Ser Ile Val Leu Leu Met Thr Pro Leu Cys Leu Val Leu Leu Ser
195 200 205
Tyr Ile Arg Ile Ile Ser Thr Ile Leu Lys Ile Gln Ser Arg Glu Gly
210 215 220
Arg Arg Lys Ala Phe His Thr Cys Ala Ser His Leu Thr Val Val Ala
225 230 235 240

```





<220>  
 <221> VARIANT  
 <222> (1)...(349)  
 <223> Xaa = Any Amino Acid

<400>2621

```

Leu Leu Ile Leu His Phe His Asp Trp Leu Phe Leu His Leu Xaa Cys
 1           5           10           15
Gly Pro Trp Lys Leu Met Gly Gln Glu Asn Lys Asn Gln Thr Trp Val
          20           25           30
Ser Glu Phe Ile Leu Leu Gly Ile Ser Ser Asp Trp Gly Ile Gln Val
          35           40           45
Ser Leu Phe Ala Leu Ile Leu Ala Met Tyr Leu Val Thr Ile Leu Gly
          50           55           60
Asn Thr Leu Ile Leu Leu Ile Arg Leu Asp Asn Arg Leu His Thr
65           70           75           80
Pro Met Tyr Phe Ser Leu Ser Val Leu Ser Phe Val Asp Phe Cys Tyr
          85           90           95
Thr Lys Ser Ile Val Pro Gln Met Leu Ser His Leu Leu Ser Ala Arg
          100          105          110
Lys Ser Ile Pro Phe Tyr Ser Cys Val Leu Gln Leu Tyr Val Ser Leu
          115          120          125
Ala Leu Cys Gly Ser Glu Phe Phe Leu Leu Gly Ala Met Ala Tyr Asp
          130          135          140
Arg Tyr Val Ala Val Cys His Pro Leu His Tyr Thr Val Ile Met His
145           150           155           160
Gly Gly Leu Cys Leu Gly Leu Ala Ala Ser Arg Leu Val Ala Gly Phe
          165          170          175
Ser Asn Ser Leu Met Glu Thr Ile Ile Thr Phe Gln Leu Pro Val Ser
          180          185          190
Arg Phe Ile Asn His Phe Val Cys Glu Thr Leu Ala Val Leu Gln Leu
          195          200          205
Ala Cys Val Asp Val Pro Phe Asn Lys Val Met Val Ala Ile Ser Gly
          210          215          220
Phe Leu Val Ile Leu Leu Pro Cys Ser Leu Val Leu Phe Ser Tyr Ala
225           230           235           240
Cys Ile Val Ala Thr Ile Leu Cys Ile Arg Ser Thr Gln Val Arg Cys
          245          250          255
Lys Ala Phe Gly Thr Cys Ala Ser His Leu Ile Val Val Cys Met Cys
          260          265          270
Phe Gly Ala Thr Ile Cys Thr Tyr Leu Gly Pro Gln Leu Ala Ser Ser
          275          280          285
Ala Glu Glu Glu Lys Met Ile Ala Leu Phe Tyr Gly Val Val Ser Pro
          290          295          300
Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Ala
305           310           315           320
Ala Val Arg Lys Val Leu Glu Arg Cys Arg Xaa Arg Val Lys Thr Leu
          325          330          335
Arg Thr Ser Cys Tyr Leu Ser Ser Lys Pro Lys Arg Arg
          340          345

```

<210> 2622  
 <211> 214  
 <212> PRT  
 <213> Unknown (hg27-dir-0-8 conceptual translation of range 1-642)

<400>2622

```

Leu Ala Asp Leu Cys Phe Ser Thr Asn Ile Val Pro Gln Ala Leu Val
 1           5           10           15
His Leu Leu Ser Arg Lys Lys Val Ile Val Phe Thr Leu Cys Ala Ala

```

		20					25				30			
Arg	Leu	Leu	Phe	Leu	Leu	Ile	Gly	Cys	Thr	Gln	Cys	Ala	Leu	Leu
		35					40				45			
Gly	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu
	50					55					60			Arg
Tyr	Pro	Asn	Ile	Met	Thr	Trp	Lys	Val	Cys	Val	Gln	Leu	Ala	Thr
65					70				75					80
Pro	Trp	Thr	Ser	Gly	Ile	Leu	Val	Ser	Val	Val	Asp	Thr	Thr	Phe
			85						90					95
Leu	Arg	Leu	Pro	Tyr	Arg	Gly	Ser	Asn	Ser	Ile	Ala	His	Phe	Trp
		100						105					110	Cys
Glu	Ala	Pro	Ala	Leu	Leu	Ile	Leu	Ala	Ser	Thr	Asp	Thr	His	Ala
	115						120					125		Ser
Glu	Met	Ala	Ile	Phe	Leu	Thr	Gly	Val	Val	Ile	Leu	Leu	Ile	Pro
	130					135				140				Val
Phe	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Arg	Ile	Ile	Val	Thr	Val	Val
145					150					155				Lys
Met	Lys	Ser	Thr	Val	Gly	Ser	Leu	Lys	Ala	Phe	Ser	Thr	Cys	Gly
			165						170					175
His	Leu	Met	Val	Val	Ile	Leu	Phe	Tyr	Gly	Ser	Ala	Ile	Ile	Thr
		180						185					190	Tyr
Met	Thr	Pro	Lys	Ser	Ser	Lys	Gln	Gln	Glu	Lys	Ser	Val	Ser	Val
	195						200					205		Phe
Tyr	Pro	Ile	Val	Thr	Pro									
	210													

&lt;210&gt; 2623

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (p51-dir-0-8 conceptual translation of range 1-651)

&lt;400&gt;2623

Ser	Leu	Ala	Asp	Leu	Cys	Phe	Ser	Thr	Asn	Ile	Val	Pro	Gln	Ala	Leu
1				5					10					15	
Val	His	Leu	Leu	Ser	Arg	Lys	Lys	Val	Ile	Ala	Phe	Thr	Leu	Cys	Ala
		20						25					30		
Ala	Arg	Leu	Leu	Phe	Phe	Leu	Ile	Phe	Gly	Cys	Thr	Gln	Cys	Ala	Leu
	35						40					45			
Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu
	50					55					60				
Arg	Tyr	Pro	Asp	Ile	Met	Thr	Trp	Lys	Val	Cys	Val	Gln	Leu	Ala	Thr
65					70					75					80
Gly	Ser	Trp	Thr	Ser	Gly	Ile	Leu	Val	Ser	Val	Val	Asp	Thr	Thr	Phe
			85						90					95	
Thr	Leu	Arg	Leu	Pro	Tyr	Arg	Gly	Ser	Asn	Ser	Ile	Ala	His	Phe	Phe
		100						105					110		
Cys	Glu	Ala	Pro	Ala	Leu	Leu	Ile	Leu	Ala	Ser	Thr	Asp	Thr	His	Ala
	115						120					125			
Ser	Glu	Met	Ala	Ile	Phe	Leu	Thr	Gly	Val	Val	Ile	Leu	Leu	Ile	Pro
	130					135					140				
Val	Phe	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Arg	Ile	Ile	Val	Thr	Val	Val
145					150					155					160
Lys	Met	Lys	Ser	Thr	Val	Gly	Ser	Leu	Lys	Ala	Phe	Ser	Thr	Cys	Gly
			165						170					175	
Ser	His	Leu	Met	Val	Val	Ile	Leu	Phe	Tyr	Gly	Ser	Ala	Ile	Ile	Thr
	180							185					190		
Tyr	Met	Thr	Pro	Lys	Ser	Ser	Lys	Gln	Gln	Glu	Lys	Ser	Val	Ser	Val
	195						200					205			
Phe	Tyr	Ala	Ile	Val	Thr	Pro	Met	Leu							
	210						215								

&lt;210&gt; 2624

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Unknown (2564517-dir-0-6 conceptual translation of range 1-474)

&lt;400&gt;2624

```

Ile Ser Phe Pro Leu Arg Tyr Thr Ile Ile Met Ser Arg Ser Ile Cys
 1           5           10           15
Ile Thr Met Val Ser Cys Cys Trp Ile Ser Gly Ser Leu Ile Ala Leu
      20           25           30
Val Val Ile Val Phe Thr Leu Gln Leu Pro Leu Cys Gly Ala Asn Val
      35           40           45
Ile Asn His Phe Phe Cys Glu Ala Thr Thr Leu Val Gly Met Ala Cys
      50           55           60
Val Asp Thr Phe Val Thr Glu Met Val Ile Phe Ser Ala Gly Ile Phe
      65           70           75           80
Thr Leu Leu Leu Pro Ser Ile Leu Thr Leu Leu Ser Tyr Ile Cys Ile
      85           90           95
Ile Val Ala Ile Val Gly Ile Arg Ser Ser Ala Gly Arg Tyr Lys Ala
      100          105          110
Phe Ser Thr Cys Ala Ser His Leu Ile Ile Val Thr Ile Phe Tyr Gly
      115          120          125
Thr Ala Ile Phe Gly Tyr Met Lys Pro Val Ser Lys Asn Ser Gly Asn
      130          135          140
Gln Asp Lys Met Thr Ser Val Phe Tyr Thr Val Thr Pro Pro
      145          150          155

```

&lt;210&gt; 2625

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (p102-dir-0-8 conceptual translation of range 2-646)

&lt;400&gt;2625

```

Phe Leu Asp Ile Cys Tyr Ile Ser Ala Ser Val Pro Gln Met Ile Val
 1           5           10           15
Asn Cys Leu Val Arg Ile Pro Ile Ile Ser Leu Gly Gln Cys Leu Ala
      20           25           30
Gln Met Cys Ala Gly Leu Tyr Leu Gly Val Val Glu Cys Leu Leu Leu
      35           40           45
Ala Val Met Ala Tyr Asp Arg Cys Ile Ala Ile Gly Asp Pro Leu Arg
      50           55           60
Tyr Ser Val Arg Met Gly Pro Gln Leu Cys Ala Gln Leu Ala Gly Ala
      65           70           75           80
Ser Trp Val Ser Ala Phe Leu Leu Thr Val Val Pro Val Leu Thr Met
      85           90           95
Pro Leu Glu Phe Cys Gly Gln His Ile Ile Asn His Phe Ser Cys Glu
      100          105          110
Leu Leu Ala Val Leu Lys Leu Ala Cys Asn Asp Leu Trp Ile Tyr Glu
      115          120          125
Leu Leu Ile Met Val Thr Ser Ser Leu Thr Leu Leu Ala Pro Phe Ala
      130          135          140
Phe Ile Leu Ala Ser Tyr Gly Cys Ile Leu Gly Ala Val Leu Lys Met
      145          150          155          160
His Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser Ser His
      165          170          175
Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ala Ile Ser Met Tyr Met
      180          185          190
Met Pro Gln Asp Lys Ala Ser Arg Asp Lys Asp Lys Ile Ile Ser Met
      195          200          205
Leu Tyr Gly Ile Val Thr Pro
      210          215

```

&lt;210&gt; 2626

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921715-dir-0-8 conceptual translation of range 2-652)

&lt;400&gt;2626

```

Ile Ile Asp Ile Ser Tyr Ala Ser Asn Lys Val Pro Lys Met Leu Thr
 1           5           10           15
Asn Leu Gly Leu Asn Lys Arg Lys Thr Ile Ser Phe Val Pro Cys Thr
      20           25           30
Met Gln Thr Phe Leu Tyr Met Ala Phe Ala His Thr Glu Cys Leu Ile
      35           40           45
Leu Val Met Met Ser Tyr Asp Arg Tyr Met Ala Ile Cys His Pro Leu
      50           55           60
Gln Tyr Ser Val Ile Met Arg Trp Gly Val Cys Thr Val Leu Ala Val
      65           70           75           80
Thr Ser Trp Ala Cys Gly Ser Leu Leu Ala Leu Val His Val Val Leu
      85           90           95
Ile Leu Arg Leu Pro Phe Cys Gly Pro His Glu Ile Asn His Phe Phe
      100          105          110
Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Leu
      115          120          125
Asn Gln Val Val Ile Phe Ala Ala Ser Val Phe Ile Leu Val Gly Pro
      130          135          140
Leu Cys Leu Val Leu Val Ser Tyr Ser Arg Ile Leu Ala Ala Ile Leu
      145          150          155          160
Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser
      165          170          175
Ser His Leu Cys Met Val Gly Leu Phe Phe Gly Ser Ala Ile Val Met
      180          185          190
Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu
      195          200          205
Ser Leu Phe Tyr Ser Leu Phe Asn Pro
      210          215

```

&lt;210&gt; 2627

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (2921709-dir-0-8 conceptual translation of range 2-652)

&lt;400&gt;2627

```

Ile Ile Asp Ile Ser Tyr Ala Ser Asn Asn Val Pro Lys Met Leu Thr
 1           5           10           15
Asn Leu Gly Leu Asn Lys Arg Lys Thr Ile Ser Phe Val Pro Cys Thr
      20           25           30
Met Gln Thr Phe Leu Tyr Met Ala Phe Ala His Thr Glu Cys Leu Ile
      35           40           45
Leu Val Met Met Ser Tyr Asp Arg Tyr Met Ala Ile Cys His Pro Leu
      50           55           60
Gln Tyr Ser Val Ile Met Arg Trp Gly Val Cys Thr Val Leu Ala Val
      65           70           75           80
Thr Ser Trp Ala Cys Gly Ser Leu Leu Ala Leu Val His Val Val Leu
      85           90           95
Ile Leu Arg Leu Pro Phe Cys Gly Pro His Glu Ile Asn His Phe Phe
      100          105          110
Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Leu
      115          120          125
Asn Gln Val Val Ile Phe Ala Ala Ser Val Phe Ile Leu Val Gly Pro
      130          135          140
Leu Cys Leu Val Leu Val Ser Tyr Ser Arg Ile Leu Ala Ala Ile Leu

```

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145          150          155          160
Gly Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser
          165          170          175
Ser His Leu Cys Met Val Gly Leu Phe Phe Gly Ser Ala Ile Val Met
          180          185          190
Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu
          195          200          205
Ser Leu Phe Tyr Ser Leu Phe Asn Pro
          210          215

```

&lt;210&gt; 2628

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Unknown (902194-dir-0-6 conceptual translation of range 2-472)

&lt;400&gt;2628

```

Ile Cys His Pro Leu His Tyr Ser Val Ile Met Ser Trp Arg Val Cys
1          5          10          15
Thr Val Gln Ala Val Thr Ser Trp Ala Cys Gly Ser Leu Leu Ala Leu
          20          25          30
Val His Val Ile Leu Ile Leu Arg Leu Pro Phe Cys Gly Pro His Glu
          35          40          45
Ile Asn His Phe Phe Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys
          50          55          60
Ala Asp Thr Arg Leu Asn Gln Val Val Ile Phe Ala Ala Ser Val Ser
65          70          75          80
Ile Leu Val Gly Pro Leu Cys Leu Val Leu Val Ser Tyr Ser Arg Ile
          85          90          95
Leu Phe Ala Ile Leu Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala
          100          105          110
Phe Ser Thr Cys Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly
          115          120          125
Ser Ala Ile Val Met Tyr Met Ala Pro Lys Ser Asn His Pro Glu Glu
          130          135          140
Gln Gln Lys Ile Leu Ser Leu Phe Tyr Ser Leu Phe Asn
145          150          155

```

&lt;210&gt; 2629

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (OST182-dir-0-8 conceptual translation of range 2-646)

&lt;400&gt;2629

```

Ile Val Asp Ile Ser Tyr Ala Ser Asn Tyr Val Pro Lys Met Leu Thr
1          5          10          15
Asn Leu Met Asn Gln Glu Ser Thr Ile Ser Phe Phe Pro Cys Ile Met
          20          25          30
Gln Thr Phe Leu Tyr Leu Ala Phe Ala His Val Glu Cys Leu Ile Leu
          35          40          45
Val Val Met Ser Tyr Asp Arg Tyr Ala Asp Ile Cys His Pro Leu Arg
          50          55          60
Tyr Asn Ile Leu Met Ser Trp Arg Val Cys Thr Val Leu Ala Val Ala
65          70          75          80
Ser Trp Val Phe Ser Phe Leu Leu Ala Leu Val Pro Leu Val Leu Ile
          85          90          95
Leu Arg Leu Pro Phe Cys Gly Pro His Glu Ile Asn His Phe Cys Glu
          100          105          110
Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Leu Asn Gln
          115          120          125
Val Val Ile Phe Ala Ala Cys Val Phe Ile Leu Val Gly Pro Leu Cys
130          135          140

```

Leu Val Leu Val Ser Tyr Leu Arg Ile Leu Ala Ala Ile Leu Arg Ile  
 145 150 155 160  
 Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser Ser His  
 165 170 175  
 Leu Cys Val Val Gly Leu Phe Phe Gly Ser Ala Ile Val Thr Tyr Met  
 180 185 190  
 Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu Ser Leu  
 195 200 205  
 Phe Tyr Ser Leu Phe Asn Pro  
 210 215

<210> 2630

<211> 352

<212> PRT

<213> Unknown (4156187-rev-1021-13 conceptual translation of range 102238-103293)

<220>

<221> VARIANT

<222> (1)...(352)

<223> Xaa = Any Amino Acid

<400>2630

Leu Leu Val Phe Cys Leu Phe Leu Cys Leu Phe Phe Ser Ser Glu Met  
 1 5 10 15  
 Val Lys Asn Gln Thr Met Val Thr Glu Phe Leu Leu Leu Gly Phe Leu  
 20 25 30  
 Leu Gly Pro Arg Ile Gln Met Leu Leu Phe Gly Leu Phe Ser Leu Phe  
 35 40 45  
 Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile Ser  
 50 55 60  
 Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His Leu  
 65 70 75 80  
 Ala Val Val Asn Ile Ala Tyr Ala Cys Asn Thr Val Pro Gln Met Leu  
 85 90 95  
 Val Asn Leu Leu His Pro Ala Lys Pro Ile Ser Phe Ala Gly Cys Met  
 100 105 110  
 Thr Xaa Thr Phe Leu Phe Leu Ser Phe Ala His Thr Glu Cys Leu Leu  
 115 120 125  
 Leu Val Leu Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu  
 130 135 140  
 Arg Tyr Phe Ile Ile Met Thr Trp Lys Val Cys Ile Thr Leu Ala Ile  
 145 150 155 160  
 Thr Ser Trp Thr Cys Gly Ser Leu Leu Ala Met Val His Val Ser Leu  
 165 170 175  
 Ile Leu Arg Leu Pro Phe Cys Gly Pro Arg Glu Ile Asn His Phe Phe  
 180 185 190  
 Cys Glu Ile Leu Ser Val Leu Arg Leu Ala Cys Ala Asp Thr Trp Leu /  
 195 200 205  
 Asn Gln Val Val Ile Phe Ala Ala Cys Met Phe Ile Leu Val Gly Pro  
 210 215 220  
 Leu Cys Leu Val Leu Val Ser Tyr Ser His Ile Leu Ala Ala Ile Leu  
 225 230 235 240  
 Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser  
 245 250 255  
 Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ser Ala Ile Val Met  
 260 265 270  
 Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu  
 275 280 285  
 Phe Leu Phe Tyr Ser Ser Phe Asn Pro Met Leu Asn Pro Leu Ile Tyr  
 290 295 300

```

Asn Leu Arg Asn Val Glu Val Lys Gly Ala Leu Arg Arg Ala Leu Cys
305                310                315                320
Lys Glu Ser His Ser Xaa Glu Val Xaa His Leu Asn Cys Gln Pro Gln
                325                330                335
Leu Ser Arg Gly Leu Leu Met Pro Asn Tyr Cys Leu Asn Pro Glu Lys
                340                345                350

```

&lt;210&gt; 2631

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (4156187-rev-834-13 conceptual translation of range 83640-84581)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(314)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2631

```

Glu Met Gly Glu Asn Gln Thr Met Val Thr Glu Phe Leu Leu Leu Gly
 1                5                10                15
Phe Leu Leu Gly Pro Arg Ile Gln Met Leu Leu Phe Gly Leu Phe Ser
 20                25                30
Leu Phe Tyr Ile Phe Thr Leu Leu Gly Asn Gly Ala Ile Leu Gly Leu
 35                40                45
Ile Ser Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50                55                60
His Leu Ala Val Val Asp Ile Ala Tyr Thr Arg Asn Thr Val Pro Gln
 65                70                75                80
Met Leu Ala Asn Leu Leu His Pro Ala Lys Pro Ile Ser Phe Ala Gly
 85                90                95
Cys Met Thr Gln Thr Phe Leu Cys Leu Ser Phe Gly His Ser Glu Cys
 100               105               110
Leu Leu Leu Val Leu Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His
 115               120               125
Pro Leu Arg Tyr Ser Val Ile Met Thr Trp Arg Val Cys Ile Thr Leu
 130               135               140
Ala Val Thr Ser Trp Thr Cys Gly Ser Leu Leu Ala Leu Ala His Val
 145               150               155               160
Val Leu Ile Leu Arg Leu Pro Phe Ser Gly Pro His Glu Ile Asn His
 165               170               175
Phe Phe Cys Glu Ile Leu Ser Val Leu Arg Leu Ala Cys Ala Asp Thr
 180               185               190
Trp Leu Asn Gln Val Val Ile Phe Ala Ala Cys Val Phe Phe Leu Val
 195               200               205
Gly Pro Pro Ser Leu Val Leu Val Ser Tyr Ser His Ile Leu Ala Ala
 210               215               220
Ile Leu Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr
 225               230               235               240
Cys Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ser Ala Ile
 245               250               255
Ile Met Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys
 260               265               270
Val Phe Phe Leu Phe Tyr Ser Phe Phe Asn Pro Thr Leu Asn Pro Leu
 275               280               285
Ile Tyr Ser Leu Arg Asn Gly Glu Val Lys Gly Ala Leu Arg Arg Ala
 290               295               300
Leu Gly Lys Glu Ser His Ser Xaa Leu Val
305                310

```

&lt;210&gt; 2632



&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Unknown (3983369-dir-0-8 conceptual translation of range 1-669)

&lt;400&gt;2632

```

Ser His Leu Ala Ile Val Asp Met Ala Tyr Ala Cys Asn Thr Val Pro
 1          5          10          15
Gln Thr Leu Ile Asn Leu Leu Asp Glu Thr Arg Pro Ile Thr Phe Ala
      20          25          30
Gly Cys Met Thr Gln Thr Tyr Leu Phe Leu Thr Phe Ala Ile Thr Glu
      35          40          45
Cys Leu Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys
      50          55          60
His Pro Leu His Tyr Thr Val Ile Met Asn Trp Arg Val Cys Thr Ile
      65          70          75          80
Met Ala Ala Val Ser Trp Ile Val Ser Phe Leu Leu Ser Leu Val His
      85          90          95
Leu Leu Leu Ile Leu Arg Leu Pro Phe Cys Gly Pro His Glu Ile Asn
      100          105          110
His Phe Phe Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp
      115          120          125
Thr Thr Leu Asn Gln Val Val Ile Phe Ala Ala Cys Val Phe Thr Leu
      130          135          140
Val Gly Pro Leu Cys Phe Val Leu Val Ser Tyr Thr Arg Ile Leu Val
      145          150          155          160
Ala Ile Leu Arg Ile Gln Ser Gly Glu Arg Arg Arg Lys Ala Phe Ser
      165          170          175
Thr Cys Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ser Ala
      180          185          190
Ile Val Met Tyr Met Ala Pro Lys Ser Gln His Pro Gly Glu Gln Gln
      195          200          205
Lys Ile Leu Phe Leu Phe Tyr Ser Phe Phe Asn Pro Met Leu Asn
      210          215          220

```

&lt;210&gt; 2633

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (OST008-dir-0-8 conceptual translation of range 2-649)

&lt;400&gt;2633

```

Ile Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met Leu Ala
 1          5          10          15
Asn Leu Met Asn Gln Lys Arg Thr Ile Ser Phe Val Pro Cys Ile Met
      20          25          30
Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Glu Cys Leu Ile Leu
      35          40          45
Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Phe Gln
      50          55          60
Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Ile Leu Val Leu Thr
      65          70          75          80
Ser Trp Ser Cys Gly Phe Ala Leu Ser Leu Val His Glu Ile Leu Leu
      85          90          95
Leu Arg Leu Pro Phe Cys Gly Pro Arg Asp Val Asn His Leu Phe Cys
      100          105          110
Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Val Asn
      115          120          125
Gln Val Val Ile Phe Ala Thr Cys Val Phe Val Leu Val Gly Pro Leu
      130          135          140
Ser Leu Ile Leu Val Ser Tyr Met His Ile Leu Gly Ala Ile Leu Lys
      145          150          155          160
Ile Gln Thr Lys Glu Gly Arg Ile Lys Ala Phe Ser Thr Cys Ser Ser

```

165                      170                      175  
 His Leu Cys Val Val Gly Leu Phe Phe Gly Ile Ala Met Val Val Tyr  
                          180                      185                      190  
 Met Val Pro Asp Ser Asn Gln Arg Glu Glu Gln Glu Lys Met Leu Ser  
                          195                      200                      205  
 Leu Phe His Ser Val Leu Asn Pro  
                          210                      215

&lt;210&gt; 2634

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (4156187-dir-87-12 conceptual translation of range 8841-9771)

&lt;400&gt;2634

Met Gly Asp Asn Gln Ser Arg Val Thr Glu Phe Ile Leu Val Gly Phe  
 1                      5                      10                      15  
 Gln Leu Ser Val Glu Met Glu Val Leu Leu Phe Trp Ile Phe Ser Leu  
                          20                      25                      30  
 Leu Tyr Leu Phe Ser Leu Leu Ala Asn Gly Met Ile Leu Gly Leu Ile  
                          35                      40                      45  
 Cys Leu Asp Pro Arg Leu Arg Thr Pro Met Tyr Phe Phe Leu Ser His  
                          50                      55                      60  
 Leu Ala Val Ile Asp Ile Tyr Tyr Ala Ser Ser Asn Leu Leu Asn Met  
 65                      70                      75                      80  
 Leu Glu Asn Leu Val Lys His Lys Lys Asn Tyr Pro Phe Ile Ser Cys  
                          85                      90                      95  
 Ile Met Gln Met Ala Leu Tyr Leu Thr Phe Ala Ala Ala Val Cys Met  
                          100                      105                      110  
 Ile Leu Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro  
                          115                      120                      125  
 Leu His Tyr Thr Val Ile Met Asn Trp Arg Val Cys Thr Val Leu Ala  
                          130                      135                      140  
 Ile Thr Ser Trp Ala Cys Gly Phe Ser Leu Ala Leu Ile Asn Leu Ile  
 145                      150                      155                      160  
 Leu Leu Leu Arg Leu Pro Phe Cys Gly Pro Gln Glu Val Asn His Phe  
                          165                      170                      175  
 Phe Gly Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp  
                          180                      185                      190  
 Ile Asn Glu Ile Phe Val Phe Ala Gly Gly Val Phe Val Leu Val Gly  
                          195                      200                      205  
 Pro Leu Ser Leu Met Leu Ile Ser Tyr Met Arg Ile Leu Leu Ala Ile  
                          210                      215                      220  
 Leu Lys Ile Gln Ser Lys Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys  
 225                      230                      235                      240  
 Ser Ser His Leu Cys Val Val Gly Leu Tyr Phe Gly Met Ala Met Val  
                          245                      250                      255  
 Val Tyr Leu Val Pro Asp Asn Ser Gln Arg Gln Lys Gln Gln Lys Ile  
                          260                      265                      270  
 Leu Thr Leu Phe Tyr Ser Leu Phe Asn Pro Leu Leu Asn Pro Leu Ile  
                          275                      280                      285  
 Tyr Ser Leu Arg Asn Ala Gln Val Lys Gly Ala Leu Tyr Arg Ala Leu  
                          290                      295                      300  
 Gln Lys Lys Arg Thr Met  
 305                      310

&lt;210&gt; 2635

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Unknown (4156187-rev-1102-12 conceptual translation of range 110295-111311)

<220>  
 <221> VARIANT  
 <222> (1)...(339)  
 <223> Xaa = Any Amino Acid

<400>2635

Ile	Cys	Phe	Xaa	Thr	Leu	Leu	Leu	Asn	His	Glu	His	Xaa	Leu	Asp	Phe
1				5					10					15	
Leu	Cys	His	Arg	Asp	Met	Gly	Asp	Asn	Ile	Thr	Ser	Ile	Thr	Glu	Phe
			20					25					30		
Leu	Leu	Leu	Gly	Phe	Pro	Val	Gly	Pro	Arg	Ile	Gln	Met	Leu	Leu	Phe
		35					40					45			
Gly	Leu	Phe	Ser	Leu	Phe	Tyr	Val	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Thr
	50					55					60				
Ile	Leu	Gly	Leu	Ile	Ser	Leu	Asp	Ser	Arg	Leu	His	Ala	Pro	Met	Tyr
65					70				75					80	
Phe	Phe	Leu	Ser	His	Leu	Ala	Val	Val	Asp	Ile	Ala	Tyr	Ala	Cys	Asn
				85					90					95	
Thr	Val	Pro	Arg	Met	Leu	Val	Asn	Leu	Leu	His	Pro	Ala	Lys	Pro	Ile
			100					105					110		
Ser	Phe	Ala	Gly	Arg	Met	Met	Gln	Thr	Phe	Leu	Phe	Ser	Thr	Phe	Ala
		115					120					125			
Val	Thr	Glu	Cys	Leu	Leu	Leu	Val	Val	Met	Ser	Tyr	Asp	Leu	Tyr	Val
	130					135					140				
Ala	Ile	Cys	His	Pro	Leu	Arg	Tyr	Leu	Ala	Ile	Met	Thr	Trp	Arg	Val
145					150					155				160	
Cys	Ile	Thr	Leu	Ala	Val	Thr	Ser	Trp	Thr	Thr	Gly	Val	Leu	Leu	Ser
				165					170					175	
Leu	Ile	His	Leu	Val	Leu	Leu	Leu	Pro	Leu	Pro	Phe	Cys	Arg	Pro	Gln
			180					185					190		
Lys	Ile	Tyr	His	Phe	Phe	Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Ala
	195						200					205			
Cys	Ala	Asp	Thr	His	Ile	Asn	Glu	Asn	Met	Val	Leu	Ala	Gly	Ala	Ile
	210					215					220				
Ser	Gly	Leu	Val	Gly	Pro	Leu	Ser	Thr	Ile	Val	Val	Ser	Tyr	Met	Cys
225					230					235				240	
Ile	Leu	Cys	Ala	Ile	Leu	Gln	Ile	Gln	Ser	Arg	Glu	Val	Gln	Arg	Lys
				245					250					255	
Ala	Phe	Cys	Thr	Cys	Phe	Ser	His	Leu	Cys	Val	Ile	Gly	Leu	Phe	Tyr
			260					265					270		
Gly	Thr	Ala	Ile	Ile	Met	Tyr	Val	Gly	Pro	Arg	Tyr	Gly	Asn	Pro	Lys
		275					280					285			
Glu	Gln	Lys	Lys	Tyr	Leu	Leu	Phe	His	Ser	Leu	Phe	Asn	Pro	Met	
	290					295				300					
Leu	Asn	Pro	Leu	Ile	Cys	Ser	Leu	Arg	Asn	Ser	Glu	Val	Lys	Asn	Thr
305					310					315				320	
Leu	Lys	Arg	Val	Leu	Gly	Val	Glu	Arg	Ala	Leu	Xaa	Lys	Gly	Leu	Trp
				325					330					335	

His Cys Asp

<210> 2636  
 <211> 339  
 <212> PRT  
 <213> Unknown (4156166-dir-1014-13 conceptual translation of range 101536-102552)

<220>  
 <221> VARIANT  
 <222> (1)...(339)  
 <223> Xaa = Any Amino Acid

&lt;400&gt;2636

```

Ile Cys Phe Xaa Thr Leu Leu Leu Asn His Glu His Xaa Leu Asp Phe
 1          5          10          15
Leu Cys His Arg Asp Met Gly Asp Asn Ile Thr Ser Ile Arg Glu Phe
          20          25          30
Leu Leu Leu Gly Phe Pro Val Gly Pro Arg Ile Gln Met Leu Leu Phe
          35          40          45
Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr
          50          55          60
Ile Leu Gly Leu Ile Ser Leu Asp Ser Arg Leu His Ala Pro Met Tyr
65          70          75          80
Phe Phe Leu Ser His Leu Ala Val Val Asp Ile Ala Tyr Ala Cys Asn
          85          90          95
Thr Val Pro Arg Met Leu Val Asn Leu Leu His Pro Ala Lys Pro Ile
          100          105          110
Ser Phe Ala Gly Arg Met Met Gln Thr Phe Leu Phe Ser Thr Phe Ala
          115          120          125
Val Thr Glu Cys Leu Leu Leu Val Val Met Ser Tyr Asp Leu Tyr Val
          130          135          140
Ala Ile Cys His Pro Leu Arg Tyr Leu Ala Ile Met Thr Trp Arg Val
145          150          155          160
Cys Ile Thr Leu Ala Val Thr Ser Trp Thr Thr Gly Val Leu Leu Ser
          165          170          175
Leu Ile His Leu Val Leu Leu Leu Pro Leu Pro Phe Cys Arg Pro Gln
          180          185          190
Lys Ile Tyr His Phe Phe Cys Glu Ile Leu Ala Val Leu Lys Leu Ala
          195          200          205
Cys Ala Asp Thr His Ile Asn Glu Asn Met Val Leu Ala Gly Ala Ile
          210          215          220
Ser Gly Leu Val Gly Pro Leu Ser Thr Ile Val Val Ser Tyr Met Cys
225          230          235          240
Ile Leu Cys Ala Ile Leu Gln Ile Gln Ser Arg Glu Val Gln Arg Lys
          245          250          255
Ala Phe Arg Thr Cys Phe Ser His Leu Cys Val Ile Gly Leu Val Tyr
          260          265          270
Gly Thr Ala Ile Ile Met Tyr Val Gly Pro Arg Tyr Gly Asn Pro Lys
          275          280          285
Glu Gln Lys Lys Tyr Leu Leu Phe His Ser Leu Phe Asn Pro Met
          290          295          300
Leu Asn Pro Leu Ile Cys Ser Leu Arg Asn Ser Glu Val Lys Asn Thr
305          310          315          320
Leu Lys Arg Val Leu Gly Val Glu Arg Ala Leu Xaa Lys Gly Leu Trp
          325          330          335
His Cys Asp

```

&lt;210&gt; 2637

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Unknown (293753-dir-0-8 conceptual translation of range 2-667)

&lt;400&gt;2637

```

Phe Phe Leu Ser His Leu Ala Ile Val Asp Ile Ala Tyr Ala Cys Asn
 1          5          10          15
Thr Val Pro Gln Met Leu Val Asn Leu Leu Asp Pro Val Lys Pro Ile
          20          25          30
Ser Tyr Ala Gly Cys Met Thr Gln Thr Phe Leu Phe Leu Thr Phe Ala
          35          40          45
Ile Thr Glu Cys Leu Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Val
          50          55          60

```

Ala Ile Cys His Pro Leu Arg Tyr Ser Ala Ile Met Ser Trp Arg Val  
65 70 75 80  
Cys Ser Thr Met Ala Val Thr Ser Trp Ile Ile Gly Val Leu Leu Ser  
85 90 95  
Leu Ile His Leu Val Leu Leu Leu Pro Leu Pro Phe Cys Val Ser Gln  
100 105 110  
Lys Val Asn His Phe Phe Cys Glu Ile Thr Ala Ile Leu Lys Leu Ala  
115 120 125  
Cys Ala Asp Thr His Leu Asn Glu Thr Met Val Leu Ala Gly Ala Val  
130 135 140  
Ser Val Leu Val Gly Pro Phe Ser Ser Ile Val Val Ser Tyr Ala Cys  
145 150 155 160  
Ile Leu Gly Ala Ile Leu Lys Ile Gln Ser Glu Glu Gly Gln Arg Lys  
165 170 175  
Ala Phe Ser Thr Cys Ser Ser His Leu Cys Val Val Gly Leu Phe Tyr  
180 185 190  
Gly Thr Ala Ile Val Met Tyr Val Gly Pro Arg His Gly Ser Pro Lys  
195 200 205  
Glu Gln Lys Lys Tyr Leu Leu Leu Phe His Ser Leu Phe Asn  
210 215 220

&lt;210&gt; 2638

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Unknown (892-dir-0-5 conceptual translation of range 2-343)

&lt;400&gt;2638

Ile Cys His Pro Leu Arg Tyr Lys Val Ile Met Ser Arg Trp Met Cys  
1 5 10 15  
Leu Leu Met Val Gly Ile Cys Gly Val Tyr Gly Val Val Gly Ser Leu  
20 25 30  
Cys Tyr Thr Phe Phe Ala Met Arg Leu Pro Tyr Cys Gly Pro Asn Glu  
35 40 45  
Ile Asp His Tyr Phe Cys Glu Val Pro Ala Val Leu Lys Leu Ala Cys  
50 55 60  
Ala Asp Thr Ser Leu Asn Asp Leu Val Asp Phe Ile Thr Gly Phe Asn  
65 70 75 80  
Val Ile Val Val Pro Leu Thr Leu Val Val Ile Val Tyr Ala Asn Ile  
85 90 95  
Phe Ala Thr Ile Met Lys Ile Arg Ser Ala Gln Gly Gln Ile Lys Ala  
100 105 110  
Phe Ser

&lt;210&gt; 2639

&lt;211&gt; 350

&lt;212&gt; PRT

&lt;213&gt; Unknown (2331266-dir-0-13 conceptual translation of range 111-1160)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(350)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2639

Leu Ala Gln Asn Ile Lys Arg Lys Thr Ala Met Asn Ser Val Asn Ala  
1 5 10 15  
Ser Phe Tyr Gln Asn Ile Ser Ile Val Arg Pro Glu Tyr Phe Phe Ile  
20 25 30  
Ser Gly Leu Ser Gly Ile Pro Tyr Ser Ser Tyr Tyr Tyr Ile Phe Leu  
35 40 45

```

Phe Val Val Tyr Phe Ile Ser Val Ile Gly Asn Ser Val Val Leu Leu
 50      55      60
Ile Ile Ala Val Asp Arg Ser Leu His Ser Pro Lys Tyr Ile Gly Val
65      70      75      80
Phe Asn Leu Ala Leu Ala Asp Ile Gly Glu Thr Asn Ala Leu Ile Pro
      85      90      95
Asn Met Met Lys Thr Phe Leu Phe Asn Ser Gln Tyr Ile Ser Tyr Asn
      100      105      110
Gly Cys Met Ala Asn Met Phe Phe Val Val Leu Phe Asn Ser Ile Gln
      115      120      125
Ser Phe Thr Leu Val Ala Leu Ala Tyr Asp Arg Phe Ile Ala Ile Cys
      130      135      140
Leu Pro Leu Arg Tyr His Ala Ile Val Asn Asn Thr Ser Met Ile Leu
145      150      155      160
Ile Phe Leu Ala Ile Trp Ala Phe Asn Ser Ser Val Val Ala Ser Met
      165      170      175
Val Ser Met Ile Thr Arg Leu Ser Ile Cys Lys Ser Asn Val Ile Pro
      180      185      190
Ser Tyr Phe Cys Asp His Gly Pro Ile Phe Arg Leu Ala Cys Asn Asp
      195      200      205
Ile Lys Ile Asn Glu Phe Phe Ala Phe Phe Ile Ser Ile Leu Tyr Leu
      210      215      220
Thr Met Pro Met Val Ile Ile Ala Leu Ser Tyr Leu Asn Ile Phe Leu
225      230      235      240
Ala Leu Ile Lys Ile Thr Thr Trp Glu Gly Arg Leu Lys Ala Leu Lys
      245      250      255
Thr Cys Val Ser His Leu Leu Leu Val Gly Ile Phe Phe Leu Pro Leu
      260      265      270
Leu Cys Thr Tyr Ile Ala Gln Val Leu Leu Ala Leu Thr Pro Asn Ala
      275      280      285
Arg Val Ile Ser Thr Ser Leu Ser Tyr Ala Ile Pro Pro Met Leu Asn
290      295      300
Pro Ile Ile Tyr Val Leu Asn Thr Ala Glu Ile Lys Tyr Ile Ile Arg
305      310      315      320
Lys Leu Phe Lys Arg Arg Leu Arg Ser Val Ser Asp Asn Ile Ser Lys
      325      330      335
Xaa Phe Cys Ser Cys Trp Gly Leu Tyr Gln Ser Lys Lys Lys
      340      345      350

```

&lt;210&gt; 2640

&lt;211&gt; 353

&lt;212&gt; PRT

&lt;213&gt; Unknown (2331262-dir-1-13 conceptual translation of range 199-1257)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(353)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2640

```

Val Gln Asn Thr Lys Cys Lys Val Ala Met Ser Ser Leu Asn Ala Ser
 1      5      10      15
Phe Ser Leu Asn Ile Ser Val Val Arg Pro Glu Tyr Phe Phe Ile Leu
      20      25      30
Gly Leu Ser Gly Ile Pro Tyr Ser Asn Leu Tyr Tyr Ile Phe Ile Phe
      35      40      45
Ile Ile Tyr Phe Ile Thr Val Ile Gly Asn Phe Leu Val Ile Leu Leu
      50      55      60
Ile Val Leu Asp Arg Ser Leu His Ser Pro Lys Tyr Ile Gly Val Phe
65      70      75      80
Asn Leu Ala Leu Ala Asp Ile Gly Glu Thr Asn Ala Leu Ile Pro Asn

```

				85					90				95				
Met	Met	Lys	Thr	Phe	Leu	Phe	Asp	Ser	Gln	Tyr	Ile	Ser	Tyr	Asn	Ala		
			100					105					110				
Cys	Leu	Val	Asn	Met	Phe	Phe	Val	Phe	Leu	Phe	Ser	Ser	Met	Gln	Ser		
		115					120					125					
Leu	Thr	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Leu	Ile	Ala	Ile	Cys	Leu		
		130				135					140						
Pro	Leu	Arg	Tyr	His	Val	Ile	Val	Asn	Asn	Thr	Ser	Met	Ile	Ser	Ile		
145					150					155					160		
Phe	Ser	Ala	Val	Phe	Met	Phe	Asn	Ser	Ile	Ile	Val	Ala	Ser	Met	Val		
			165					170					175				
Ser	Leu	Val	Thr	Asn	Ile	Ser	Phe	Cys	Lys	Ser	Asn	Val	Ile	Gln	Ser		
			180					185					190				
Tyr	Phe	Cys	Asp	His	Gly	Pro	Met	Phe	Arg	Met	Ala	Cys	Asn	Asp	Asn		
		195					200					205					
Asn	Ile	Asn	Lys	Ile	Met	Gly	Phe	Leu	Tyr	Thr	Thr	Leu	Tyr	Leu	Ile		
	210					215					220						
Ala	Pro	Met	Leu	Val	Ile	Phe	Leu	Ser	Tyr	Leu	Gly	Ile	Phe	Leu	Val		
225					230					235					240		
Val	Ser	Lys	Ile	Ala	Thr	Trp	Glu	Arg	Arg	Leu	Lys	Ala	Leu	Lys	Thr		
			245					250					255				
Cys	Val	Ser	His	Leu	Leu	Leu	Val	Gly	Ile	Tyr	Phe	Leu	Pro	Ile	Phe		
		260						265					270				
Phe	Thr	Tyr	Leu	Thr	Ser	Leu	Leu	Phe	Ser	Thr	Ser	Asn	Ser	Arg			
	275					280				285							
Val	Ile	Ser	Thr	Ser	Leu	Ala	Tyr	Ala	Ile	Pro	Pro	Met	Leu	Asn	Pro		
	290					295				300							
Ile	Ile	Tyr	Val	Leu	Asn	Thr	Ala	Glu	Ile	Lys	Asn	Thr	Ile	Arg	Lys		
305					310					315					320		
Gly	Phe	Lys	Asn	Arg	Ser	Leu	Pro	Ile	Glu	Thr	Val	Ser	Lys	Xaa	Ile		
			325					330					335				
Lys	Arg	Leu	Phe	Phe	Ile	Val	Xaa	Tyr	His	Lys	Tyr	Asp	Phe	Cys	Ile		
			340					345					350				

Cys

&lt;210&gt; 2641

&lt;211&gt; 351

&lt;212&gt; PRT

&lt;213&gt; Unknown (4726083-dir-262-12 conceptual translation of range 26289-27340)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(351)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2641

Leu	Ser	Pro	Ser	Leu	Lys	Pro	Ser	Cys	Asn	Cys	Asp	Pro	Thr	Met	Trp		
1				5				10					15				
Pro	Asn	Ser	Ser	Asp	Ala	Pro	Phe	Leu	Leu	Thr	Gly	Phe	Leu	Gly	Leu		
			20					25					30				
Glu	Met	Ile	His	His	Trp	Ile	Ser	Ile	Pro	Phe	Phe	Val	Ile	Tyr	Phe		
		35				40						45					
Ser	Ile	Ile	Val	Gly	Asn	Gly	Thr	Leu	Leu	Phe	Ile	Ile	Trp	Ser	Asp		
	50					55					60						
His	Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu	Ala	Val	Leu	Ala	Ser		
65					70					75					80		
Met	Asp	Leu	Gly	Met	Thr	Leu	Thr	Thr	Met	Pro	Thr	Val	Leu	Gly	Val		
				85				90					95				
Leu	Val	Leu	Asn	Gln	Arg	Glu	Ile	Val	His	Gly	Ala	Cys	Phe	Ile	Gln		

```
<210> 2642
<211> 159
<212> PRT
<213> Unknown (4680279-dir-0-6 conceptual translation of range 2-478)
```

<210> 2643  
<211> 160



&lt;212&gt; PRT

&lt;213&gt; Unknown (902668-dir-0-6 conceptual translation of range 2-481)

&lt;400&gt;2643

```

Ile Ser Asn Pro Leu Arg Tyr Ala Ser Val Leu Thr Asn Asn Val Ile
 1           5           10           15
Ile Arg Ile Gly Val Ala Ile Thr Thr Arg Ala Thr Leu Ser Leu Leu
           20           25           30
Pro Leu Pro Phe Leu Leu Lys Arg Leu Asn Tyr Cys Pro Gly Lys Ile
           35           40           45
Leu Leu Ser His Ser Phe Cys Phe His Ala Asp Val Met Lys Leu Ala
           50           55           60
Cys Ala Asp Ile Thr Val Asn Ile Leu Tyr Gly Leu Tyr Val Val Leu
65           70           75           80
Ser Thr Val Gly Ile Asp Ser Leu Leu Ile Val Met Ser Tyr Ser Leu
           85           90           95
Ile Leu His Thr Val Met Gly Leu Ala Ser Pro Arg Glu Arg Val Arg
           100          105          110
Thr Leu Asn Thr Cys Val Ser His Ile Ser Ala Val Leu Val Phe Tyr
           115          120          125
Ile Pro Val Ile Gly Val Ser Met Ile His Arg Phe Gly Lys His Leu
           130          135          140
Pro His Ile Val His Ala Leu Val Ala Tyr Val Tyr Leu Val Val Pro
145          150          155          160

```

&lt;210&gt; 2644

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (3927807-dir-288-13 conceptual translation of range 29007-29954)

&lt;400&gt;2644

```

Leu Asn Met Tyr Pro Arg Asn Ser Ser Gln Ala Gln Pro Phe Leu Leu
 1           5           10           15
Ala Gly Leu Pro Gly Met Ala Gln Phe His His Trp Val Phe Leu Pro
           20           25           30
Phe Gly Leu Met Tyr Leu Val Ala Val Leu Gly Asn Gly Thr Ile Leu
           35           40           45
Leu Val Val Arg Val His Arg Gln Leu His Gln Pro Met Tyr Tyr Phe
           50           55           60
Leu Leu Met Leu Ala Thr Thr Asp Leu Gly Leu Thr Leu Ser Thr Leu
65           70           75           80
Pro Thr Val Leu Arg Val Phe Trp Leu Gly Ala Met Glu Ile Ser Phe
           85           90           95
Pro Ala Cys Leu Ile Gln Met Phe Cys Ile His Val Phe Ser Phe Met
           100          105          110
Glu Ser Ser Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
           115          120          125
Cys Cys Pro Leu Arg Tyr Ser Ser Ile Leu Thr Gly Ala Arg Val Ala
130          135          140
Gln Ile Gly Leu Gly Ile Ile Cys Arg Cys Thr Leu Ser Leu Leu Pro
145          150          155          160
Leu Ile Cys Leu Leu Thr Trp Leu Pro Phe Cys Arg Ser His Val Leu
           165          170          175
Ser His Pro Tyr Cys Leu His Gln Asp Ile Ile Arg Leu Ala Cys Thr
           180          185          190
Asp Ala Thr Leu Asn Ser Leu Tyr Gly Leu Ile Leu Val Leu Val Ala
           195          200          205
Ile Leu Asp Phe Val Leu Ile Ala Leu Ser Tyr Ile Met Ile Phe Arg
210          215          220
Thr Val Leu Gly Ile Thr Ser Lys Glu Glu Gln Thr Lys Ala Leu Asn

```

225		230		235		240
Thr Cys Val Ser	His Phe Cys Ala Val	Leu Ile Phe Tyr Ile	Pro Leu			
	245	250	255			
Ala Gly Leu Ser	Ile Ile His Arg Tyr	Gly Arg Asn Ala	Pro Pro Ile			
	260	265	270			
Ser His Ala Val	Met Ala Asn Val Tyr	Leu Phe Val	Pro Pro Ile Leu			
	275	280	285			
Asn Pro Val Leu	Tyr Ser Met Lys Ser	Lys Ala Ile Cys	Lys Gly Leu			
	290	295	300			
Leu Arg Leu Leu	Cys Gln Arg Ala Ala	Trp Pro Gly				
305	310	315				

&lt;210&gt; 2645

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (4761596-dir-254-13 conceptual translation of range 25614-26561)

&lt;400&gt;2645

Phe His Asn Asp	Thr Asn Pro Gln	Asp Val Trp Tyr	Val Leu Ile Gly
1	5	10	15
Ile Pro Gly Leu	Glu Asp Leu His	Ser Trp Ile Ala	Ile Pro Ile Cys
	20	25	30
Ser Met Tyr Ile	Val Ala Val Ile	Gly Asn Val Leu	Leu Ile Phe Leu
	35	40	45
Ile Val Thr Glu	Arg Ser Leu His	Glu Pro Met Tyr	Phe Phe Leu Ser
	50	55	60
Met Leu Ala Leu	Ala Asp Leu Leu	Leu Ser Thr Ala	Thr Ala Pro Lys
	65	70	75
Met Leu Ala Ile	Phe Trp Phe His	Ser Arg Gly Ile	Ser Phe Gly Ser
	85	90	95
Cys Val Ser Gln	Met Phe Phe Ile	His Phe Ile Phe	Val Ala Glu Ser
	100	105	110
Ala Ile Leu Leu	Ala Met Ala Phe	Asp Arg Tyr Val	Ala Ile Cys Tyr
	115	120	125
Pro Leu Arg Tyr	Thr Thr Ile Leu	Thr Ser Ser Val	Ile Gly Lys Ile
	130	135	140
Gly Thr Ala Ala	Val Val Arg Ser	Phe Leu Ile Cys	Phe Pro Phe Ile
	145	150	155
Phe Leu Val Tyr	Arg Leu Leu Tyr	Cys Gly Lys His	Ile Ile Pro His
	165	170	175
Ser Tyr Cys Glu	His Met Gly Ile	Ala Arg Leu Ala	Cys Asp Asn Ile
	180	185	190
Thr Val Asn Ile	Ile Tyr Gly Leu	Thr Met Ala Leu	Leu Ser Thr Gly
	195	200	205
Leu Asp Ile Leu	Leu Ile Ile Ser	Tyr Thr Met Ile	Leu Arg Thr
	210	215	220
Val Phe Gln Ile	Pro Ser Trp Ala	Ala Arg Tyr Lys	Ala Leu Asn Thr
	225	230	235
Cys Gly Ser His	Ile Cys Val Ile	Leu Leu Phe Tyr	Thr Pro Ala Phe
	245	250	255
Phe Ser Phe Phe	Ala His Arg Phe	Gly Gly Lys Thr	Val Pro Arg His
	260	265	270
Ile His Ile Leu	Val Ala Asn Leu	Tyr Val Val Val	Pro Pro Met Leu
	275	280	285
Asn Pro Ile Ile	Tyr Gly Val Lys	Thr Lys Gln Ile	Gln Asp Arg Val
	290	295	300
Val Phe Leu Phe	Ser Ser Val Ser	Thr Cys Gln His	
305	310	315	

&lt;210&gt; 2646

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Unknown (2564519-dir-0-6 conceptual translation of range 1-477)

&lt;400&gt;2646

```

Ile Cys Asn Pro Leu Arg Tyr Ala Val Met Leu Thr Asn Ile Val Ile
 1           5           10           15
Arg Lys Ile Ala Ile Leu Ala Val Val Arg Gly Leu Cys Val Val Ala
          20           25           30
Pro Phe Thr Phe Leu Leu His Arg Leu Pro Tyr Cys Gln Asn Asn Val
          35           40           45
Val Pro His Thr Tyr Cys Glu His Met Gly Ile Ala Lys Leu Ala Cys
          50           55           60
Ala Asp Val Thr Val Asn Ser Val Tyr Gly Leu Thr Ile Ala Leu Ser
65           70           75           80
Ile Thr Gly Leu Asp Ala Ala Leu Val Val Ala Ser Tyr Val Leu Ile
          85           90           95
Leu Arg Ala Val Leu Asn Met Asn Ser Met Thr Ala Arg His Lys Ala
          100          105          110
Leu Ser Thr Cys Ala Ser His Val Cys Val Ile Ile Leu Phe Cys Val
          115          120          125
Pro Ala Phe Phe Ser Phe Phe Ala His Arg Phe Gly Lys Asn Ile Pro
          130          135          140
Leu Asn Val His Ile Phe Val Ala Asn Leu Tyr Ile Leu Leu Pro
145          150          155

```

&lt;210&gt; 2647

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Unknown (1644474-dir-0-6 conceptual translation of range 1-474)

&lt;400&gt;2647

```

Lys Pro Leu His Tyr Asn Glu Ile Met Asn Ser Ser Met Phe Leu Lys
 1           5           10           15
Leu Phe Leu Phe Thr Leu Ile Arg Ser Gly Thr Ile Met Ser Thr Leu
          20           25           30
Val Ala Leu Ala Ser Pro Leu Ser Phe Cys Gly Ser Asn Val Ile Tyr
          35           40           45
His Cys Tyr Cys Asp His Met Ala Leu Val Ser Leu Ala Cys Asp Ser
          50           55           60
Ile Ala Gln Asn Gln Thr Met Gly Leu Ile Val Ile Ile Cys Phe Val
65           70           75           80
Gly Ile Asp Thr Ser Val Ile Phe Phe Ser Tyr Val Lys Ile Leu His
          85           90           95
Val Val Leu Gly Thr Ala Ala Gly Glu Asp Arg Trp Lys Ala Phe His
          100          105          110
Thr Cys Gly Thr His Leu Met Val Met Ile Cys Phe Tyr Phe Val Gly
          115          120          125
Ser Val Thr Phe Leu Ser Arg Asn Leu Asn Ile Pro Ile Pro Ile Asp
          130          135          140
Val Asn Thr Phe Leu Gly Val Met Tyr Ile Val Phe Pro Ala
145          150          155

```

&lt;210&gt; 2648

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Unknown (4877304-dir-0-6 conceptual translation of range 2-484)

&lt;400&gt;2648

```

Leu Ala Ile Cys Tyr Pro Leu His Tyr Ser Ala Leu Met Thr Asn Lys
 1           5           10           15

```

```

His Ala Ile Arg Leu Ser Cys Leu Cys Trp Ile Ile Gly Phe Leu Ile
      20              25              30
Leu Ile Met Asn Leu Cys Phe Ile Arg Gln Thr Leu Phe Cys Gly Pro
      35              40              45
Asn Glu Val Pro His Tyr Phe Cys Asp Tyr Ser Ala Val Ala Ala Leu
      50              55              60
Ala Cys Asn Asp Ile Ser Ile Tyr Ala Ala Val Gly Phe Ala Ile Ala
      65              70              75              80
Met Cys Val Ile Cys Ser Val Leu Leu Cys Leu Val Tyr Ser Tyr Val
      85              90              95
Lys Ile Val Ala Ser Val Leu Lys Ile Ala Ser Thr Asp Gly Arg Gln
      100             105             110
Lys Ala Phe Ser Thr Cys Val Ser His Leu Phe Val Val Ser Val Phe
      115             120             125
Ser Ile Leu Ala Ala Phe Val Phe Val Ser Tyr Arg Ile Glu Glu Phe
      130             135             140
Ser Glu Asp Ala Arg Met Ile Ile His Val Val Gln Asn Thr Phe Pro
      145             150             155             160
Ser

```

&lt;210&gt; 2649

&lt;211&gt; 168

&lt;212&gt; PRT

&lt;213&gt; Unknown (5262456-dir-284-6 conceptual translation of range 28407-28908)

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(168)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2649

```

Gly Phe Trp Leu Gly Cys Tyr Leu Trp Phe Met Val Val Leu Thr Leu
  1           5           10           15
Ala Ile Arg Leu Arg Pro Phe Gly Leu Gly Gly Phe Leu Leu Lys Xaa
      20              25              30
Thr Ile Glu Xaa Gly Ala Cys Pro Arg Xaa Val Met Leu Leu Cys
      35              40              45
Gln Lys Pro Tyr Leu His Cys Val Val Val Val Phe Ile Phe Leu
      50              55              60
Ala Ser Leu Leu Leu Ile Leu Val Ser Tyr Gly Phe Ile Ala Val Ala
      65              70              75              80
Val Leu Lys Ile Lys Ser Ala Ala Gly Arg Gln Lys Ala Phe Gly Thr
      85              90              95
Cys Phe Ser His Leu Ile Val Val Ser Ile Phe Tyr Gly Thr Val Arg
      100             105             110
Tyr Met Tyr Ile Glu Pro Gly Asn Ser Pro Ser Gln Asp Glu Gly Lys
      115             120             125
Leu Leu His Ile Phe Tyr Ser Ile Val Thr Pro Thr Leu Asn Pro Tyr
      130             135             140
Pro Leu Arg Asn Lys Glu Phe Lys Trp Ala Met Lys Arg Leu Ile Gly
      145             150             155             160
Lys Glu Lys Gly Ser Gly Asp Thr
      165

```

&lt;210&gt; 2650

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (3941546-dir-0-12 conceptual translation of range 37-972)

&lt;400&gt;2650

```

Asn Val Ser Phe Tyr Asn Phe Lys Cys Thr Leu Ser Glu Leu Thr Gln
 1          5          10          15
Pro Gln Arg Val Leu Ile Trp Val Phe Thr Ile Ile Ile Thr Ile
 20          25          30
Thr Val Val Gly Asn Ile Leu Thr Ile Val Ser Ile Leu Tyr Phe Arg
 35          40          45
Gln Leu Gln Thr Arg Thr Asn Val Leu Ala Leu Ser Leu Ala Leu Ala
 50          55          60
Asp Phe Leu Val Gly Cys Leu Ile Met Pro Phe Ser Val Met Arg Thr
 65          70          75          80
Ala Tyr Ser Cys Trp Phe Tyr Gly Gln Leu Met Cys Arg Ile His Thr
 85          90          95
Trp Leu Asp Tyr Thr Phe Thr Thr Cys Ser Ile Phe Asn Leu Ala Cys
 100          105          110
Ile Ser Ile Asp Arg Tyr Val Ala Ile Ser Asp Pro Leu Arg Tyr Asp
 115          120          125
Gln Arg Val Thr Tyr Arg Ile Leu Ala Val Met Leu Thr Ile Cys Trp
 130          135          140
Gly Asn Ile Ile Pro Tyr Gly Val Ser Tyr Met Leu Lys Leu Asn Ile
 145          150          155          160
Asn Gly Ile Glu Ser Val Val Ala Ala Lys Ser Cys Pro Asp Asn Cys
 165          170          175
Ser Val Phe Met Asn Val Pro Phe Gly Leu Ala Asn Ser Met Gly Ala
 180          185          190
Tyr Val Leu Pro Met Leu Phe Ile Met Ala Ala Tyr Ser Arg Ile Tyr
 195          200          205
Val Met Ala Arg Asn Gln Ala Lys Arg Ile Ser Ser Leu Gly Asp Gln
 210          215          220
Val Arg Ala Ser Asn Ala Ser Asp Leu Thr Met Gln Ser Lys Trp Asn
 225          230          235
Ala Met Lys Arg Asp His Asn Ala Thr Lys Thr Leu Gly Met Ile Met
 245          250          255
Val Val Leu Phe Ile Val Trp Leu Pro Phe Ile Val Val Val Ala Thr
 260          265          270
Glu Pro Val Ile Gly Tyr Arg Met Asp Ser Thr Val Trp Asp Val Ala
 275          280          285
Asn Trp Phe Thr Tyr Phe Asn Ser Arg Met Asn Pro Ile Leu Phe Ala
 290          295          300
Ser Phe Asn Asn Ser Phe Arg Ser
305          310

```

&lt;210&gt; 2651

&lt;211&gt; 314

&lt;212&gt; PRT

<213> Unknown (17-2 (HGMP07I 400671 OL1A 438389 P30953 OLFI 1804351A S20572)  
Parmentier-M 92)

&lt;400&gt;2651

```

Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly
 1          5          10          15
Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu
 20          25          30
Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu
 35          40          45
Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
 50          55          60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys
 65          70          75          80
Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp
 85          90          95
Cys Leu Thr Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser

```

```
<210> 2652
<211> 312
<212> PRT
<213> Unknown (17-4 (OLFR1 425221 482560 A48413 HSHGM07EG) Schurmans-S 93)
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1616

210	215	220
Ile Leu Arg Ile Pro Ser Val Ser Lys Lys Tyr Lys Ala Phe Ser Thr		
225	230	235
Cys Ala Ser His Leu Gly Ala Val Ser Leu Phe Tyr Gly Thr Leu Cys		
	245	250
Met Val Tyr Leu Lys Pro Leu His Thr Tyr Ser Val Lys Asp Ser Val		
	260	265
Ala Thr Val Met Tyr Ala Val Val Thr Pro Met Met Asn Pro Phe Ile		
	275	280
Tyr Ser Leu Arg Asn Lys Asp Met His Gly Ala Leu Gly Arg Leu Leu		
	290	295
Asp Lys His Phe Lys Arg Leu Thr		300
305	310	

&lt;210&gt; 2653

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (17-40 (OL1E 516320 2209308A 1588713))

&lt;400&gt;2653

Met Gln Pro Glu Ser Gly Ala Asn Gly Thr Val Ile Ala Glu Phe Ile	
1	5
Leu Leu Gly Leu Leu Glu Ala Pro Gly Leu Gln Pro Val Val Phe Val	
	20
Leu Phe Leu Phe Ala Tyr Leu Val Thr Val Arg Gly Asn Leu Ser Ile	
	35
Leu Ala Ala Val Leu Val Glu Pro Lys Leu His Thr Pro Met Tyr Phe	
	50
Phe Leu Gly Asn Leu Ser Val Leu Asp Val Gly Cys Ile Ser Val Thr	
65	70
Val Pro Ser Met Leu Ser Arg Leu Leu Ser Arg Lys Arg Ala Val Pro	
	85
Cys Gly Ala Cys Leu Thr Gln Leu Phe Phe Phe His Leu Phe Val Gly	
	100
Val Asp Cys Phe Leu Leu Thr Ala Met Ala Tyr Asp Gln Phe Leu Ala	
	115
Ile Cys Arg Pro Leu Thr Tyr Ser Thr Arg Met Ser Gln Thr Val Gln	
	130
Arg Met Leu Val Ala Ala Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu	
145	150
Thr His Thr Val Ala Met Ser Thr Leu Asn Phe Cys Gly Pro Asn Val	
	165
Ile Asn His Phe Tyr Cys Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys	
	180
Ser Ser Thr Gln Leu Asn Glu Leu Leu Phe Ala Val Gly Phe Ile	
	195
Met Ala Gly Thr Pro Met Ala Leu Ile Val Ile Ser Tyr Ile His Val	
	210
Ala Ala Ala Val Leu Arg Ile Arg Ser Val Glu Gly Arg Lys Lys Ala	
225	230
Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Ala Ile Phe Tyr Gly	
	245
Ser Gly Ile Phe Asn Tyr Met Arg Leu Gly Ser Thr Lys Leu Ser Asp	
	260
Lys Asp Lys Ala Val Gly Ile Phe Asn Thr Val Ile Asn Pro Met Leu	
	275
Asn Pro Ile Ile Tyr Ser Phe Arg Asn Pro Asp Val Gln Ser Ala Ile	
	290
Trp Arg Met Leu Thr Gly Arg Arg Ser Leu Ala	
305	310

<210> 2654  
 <211> 323  
 <212> PRT  
 <213> Unknown (17-93)

<400>2654  
 Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Thr Pro Val Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp  
 85 90 95  
 Cys Leu Thr Gln Met Tyr Phe Phe Leu Tyr Phe Ser Asp Leu Glu Ser  
 100 105 110  
 Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Met His Tyr Thr Ala Ile Cys Phe Leu Leu His Tyr Thr Ala Ile  
 130 135 140  
 Met Ser Pro Met Leu Cys Leu Ser Val Val Ala Leu Ser Trp Val Leu  
 145 150 155 160  
 Thr Thr Phe His Ala Met Leu His Thr Leu Leu Met Ala Arg Leu Cys  
 165 170 175  
 Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys Asp Met Ser Ala  
 180 185 190  
 Leu Leu Lys Leu Ala Cys Ser Asp Thr Arg Val Asn Glu Trp Val Ile  
 195 200 205  
 Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe Leu Leu Ile Leu  
 210 215 220  
 Gly Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser  
 225 230 235 240  
 Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val  
 245 250 255  
 Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr Leu Cys Pro Ser  
 260 265 270  
 Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr  
 275 280 285  
 Val Val Thr Pro Met Leu Thr Pro Phe Ile Tyr Ser Leu Arg Asn Arg  
 290 295 300  
 Asp Met Lys Gly Ala Leu Glu Arg Val Ile Cys Lys Arg Lys Asn Pro  
 305 310 315 320  
 Phe Leu Leu

<210> 2655  
 <211> 316  
 <212> PRT  
 <213> Unknown (FAT11 (HUMORLMHC A57069 601919 1097174 1362875) Fan-W 95)

<400>2655  
 Met Asp Asn Gln Ser Ser Thr Pro Gly Phe Leu Leu Leu Gly Phe Ser  
 1 5 10 15  
 Glu His Pro Gly Leu Gly Arg Thr Leu Phe Val Asp Val Ile Thr Ser  
 20 25 30  
 Tyr Leu Leu Thr Leu Val Gly Asn Thr Leu Ile Ile Leu Leu Ser Ala  
 35 40 45



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Leu Asp Thr Lys Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50      55      60
Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro Gln Met Leu
65      70      75      80
Ala Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu Asp Cys Ser
      85      90      95
Val Gln Ile Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu
      100      105      110
Met Lys Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
      115      120      125
His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln Leu Ala Ser
      130      135      140
Val Ala Trp Val Ile Gly Leu Val Gly Ser Val Val Gln Thr Pro Ser
145      150      155      160
Thr Leu His Leu Pro Phe Cys Pro Asp Arg Gln Val Asp Asp Phe Val
      165      170      175
Cys Glu Val Pro Ala Leu Ile Arg Leu Ser Cys Glu Asp Thr Ser Tyr
      180      185      190
Asn Glu Ile Gln Val Ala Val Ala Ser Val Phe Ile Leu Val Val Pro
      195      200      205
Leu Ser Leu Ile Leu Val Ser Tyr Gly Ala Ile Thr Trp Ala Val Leu
210      215      220
Arg Ile Asn Ser Ala Thr Ala Trp Arg Lys Ala Phe Gly Thr Cys Ser
225      230      235      240
Ser His Leu Thr Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val
      245      250      255
Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Gln Gly Arg Gly Lys Phe Phe
      260      265      270
Gly Leu Phe Tyr Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Val Tyr
      275      280      285
Thr Leu Arg Asn Lys Glu Ile Lys Arg Ala Leu Arg Arg Leu Leu Gly
290      295      300
Lys Glu Arg Asp Ser Arg Glu Ser Trp Arg Ala Ala
305      310      315

```

&lt;210&gt; 2656

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Unknown (H8 (432510) Selbie-LA 92)

&lt;400&gt;2656

```

Pro Met Tyr Leu Phe Leu Ser Asn Leu Ser Phe Leu Asp Ile Gly Phe
 1      5      10      15
Ile Ser Thr Ile Ile Pro Lys Met Leu Asp His Ile Ser Ser Gly Ile
      20      25      30
Lys Leu Ile Ser Tyr Gly Glu Cys Leu Thr Gln Leu Tyr Phe Ser Gly
      35      40      45
Leu Phe Ala Asp Leu Asp Asn Asn Phe Leu Leu Ala Val Met Ala Ile
      50      55      60
Asp Arg Tyr Val Ala Ile Ser His Pro Leu His Tyr Ala Leu Thr Met
65      70      75      80
Asn Ser Gln Arg Cys Val Leu Leu Val Ala Val Ser Trp Val Ile Thr
      85      90      95
Ile Leu His Ala Leu Val His Thr Leu Leu Val Thr Arg Leu Ser Phe
      100      105      110
Cys Gly Pro Asn Ile Ile Pro His Phe Phe Cys Asp Leu Val Pro Leu
      115      120      125
Leu Lys Leu Ala Cys Ser Ser Thr Cys Val Asn Asp Leu Val Leu Ile
      130      135      140
Leu Val Pro Gly Thr Leu Leu Ile Ala Pro Phe Val Cys Ile Leu Met
145      150      155      160

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Ser Tyr Phe Tyr Ile Ala Leu Ala Ile Leu Arg Ile Asp Ser Pro Arg  
 165 170 175  
 Gly Lys Gln Arg Ala Phe Ser Ser Cys Thr Ser His Leu Ser Val Val  
 180 185 190  
 Ser Leu Phe Tyr Ser Thr Ala Ile Gly Val Tyr Leu Cys Pro Pro Ser  
 195 200 205  
 Ser His Ser Asp Gly Lys Asp Arg Val Phe Ser Val Met Tyr Thr Val  
 210 215 220  
 Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp  
 225 230 235 240  
 Met Lys Gly Ala Leu Gly Lys Leu Leu Gly Ile Lys Thr Ser  
 245 250

<210> 2657

<211> 195

<212> PRT

<213> Unknown (G3 (432509) Selbie-LA 92)

<400>2657

Glu Phe Leu Leu Leu Gly Leu Ser Glu Asp Pro Asp Leu Gln Pro Val  
 1 5 10 15  
 Leu Ala Leu Leu Ser Leu Ser Leu Ser Met Tyr Leu Val Met Val Leu  
 20 25 30  
 Arg Asn Leu Leu Ser Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His  
 35 40 45  
 Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu Cys Trp Pro Asp Ile Gly  
 50 55 60  
 Phe Thr Ser Ala Met Val Pro Lys Met Ile Val Asp Thr Gln Ser His  
 65 70 75 80  
 Ser Arg Val Ile Ser His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu  
 85 90 95  
 Leu Leu Val Ala Cys Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr  
 100 105 110  
 Asp Cys Phe Val Ala Ile Cys Arg Pro Leu His Tyr Pro Ile Ile Val  
 115 120 125  
 Asn Pro His Leu Cys Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser  
 130 135 140  
 Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu Gln Leu Thr Ile  
 145 150 155 160  
 Ile Lys Asn Val Glu Ile Ser Asn Leu Val Cys Asp Pro Ser Gln Leu  
 165 170 175  
 Leu Lys Leu Ala Cys Ser Asp Ser Val Leu Thr Asn Ile Phe Ile Tyr  
 180 185 190  
 Ser Ile Gly  
 195

<210> 2658

<211> 314

<212> PRT

<213> Unknown (HsOLF1 (1336041 HSU56420) Issel-Tarver-L 97 11q11)

<400>2658

Met Glu Phe Thr Asp Arg Asn Tyr Thr Leu Val Thr Glu Phe Ile Leu  
 1 5 10 15  
 Leu Gly Phe Pro Thr Arg Pro Glu Leu Gln Ile Val Leu Phe Leu Met  
 20 25 30  
 Phe Leu Thr Leu Tyr Ala Ile Ile Leu Ile Gly Asn Ile Gly Leu Met  
 35 40 45  
 Leu Leu Ile Arg Ile Asp Pro His Leu Gln Thr Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Ser Asn Leu Ser Phe Val Asp Leu Cys Tyr Phe Ser Asp Ile Val

65					70					75					80
Pro	Lys	Met	Leu	Val	Asn	Phe	Leu	Ser	Glu	Asn	Lys	Ser	Ile	Ser	Tyr
				85					90					95	
Tyr	Gly	Cys	Ala	Leu	Gln	Phe	Tyr	Phe	Phe	Cys	Thr	Phe	Ala	Asp	Thr
			100					105					110		
Glu	Ser	Phe	Ile	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Val	Met	Ser	Arg	Gly	Ile	Cys	Met
		130				135					140				
Arg	Leu	Ile	Val	Leu	Ser	Tyr	Leu	Gly	Gly	Asn	Met	Ser	Ser	Leu	Val
145					150					155					160
His	Thr	Ser	Phe	Ala	Phe	Ile	Leu	Lys	Tyr	Cys	Asp	Lys	Asn	Val	Ile
			165						170					175	
Asn	His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr
		180						185					190		
Asp	Thr	Thr	Ile	Asn	Glu	Trp	Leu	Leu	Ser	Thr	Tyr	Gly	Ser	Ser	Val
		195					200					205			
Glu	Ile	Ile	Cys	Phe	Ile	Ile	Ile	Ile	Ser	Tyr	Phe	Phe	Ile	Leu	
	210					215				220					
Leu	Ser	Val	Leu	Lys	Ile	Arg	Ser	Phe	Ser	Gly	Arg	Lys	Lys	Thr	Phe
225					230					235					240
Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ser	Val	Thr	Ile	Tyr	Gln	Gly	Thr
			245						250					255	
Leu	Leu	Phe	Ile	Tyr	Ser	Arg	Pro	Ser	Tyr	Leu	Tyr	Ser	Pro	Asn	Thr
		260					265						270		
Asp	Lys	Ile	Ile	Ser	Val	Phe	Tyr	Thr	Ile	Phe	Ile	Pro	Val	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Ala	Glu
	290					295					300				
Lys	Val	Leu	Arg	Ser	Lys	Val	Asp	Ser	Ser						
305					310										

&lt;210&gt; 2659

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (HsOLF3 (1336043 HSU56421) Issel-Tarver-L 97 7q35)

&lt;400&gt;2659

Met	Gly	Thr	Asp	Asn	Gln	Thr	Trp	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly
1				5				10						15	
Leu	Ser	Ser	Asp	Trp	Asp	Thr	Arg	Val	Ser	Leu	Phe	Val	Leu	Phe	Leu
			20					25					30		
Val	Met	Tyr	Val	Val	Thr	Val	Leu	Gly	Asn	Cys	Leu	Ile	Val	Leu	Leu
	35					40						45			
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50				55					60					
Asn	Leu	Ser	Leu	Val	Asp	Val	Ser	Tyr	Ala	Thr	Ser	Val	Val	Pro	Gln
65				70					75					80	
Leu	Leu	Ala	His	Phe	Leu	Ala	Glu	His	Lys	Ala	Ile	Pro	Phe	Gln	Ser
			85					90					95		
Cys	Ala	Ala	Gln	Leu	Phe	Phe	Ser	Leu	Ala	Leu	Gly	Gly	Ile	Glu	Phe
			100					105					110		
Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asp
		115					120					125			
Ala	Leu	Arg	Tyr	Ser	Ala	Ile	Met	His	Gly	Gly	Leu	Cys	Ala	Arg	Leu
	130					135					140				
Ala	Ile	Thr	Ser	Trp	Val	Ser	Gly	Phe	Ile	Ser	Ser	Pro	Val	Gln	Thr
145					150					155				160	
Ala	Ile	Thr	Phe	Gln	Leu	Pro	Met	Cys	Arg	Asn	Lys	Phe	Ile	Asp	His
			165					170					175		
Ile	Ser	Cys	Glu	Leu	Leu	Ala	Val	Val	Arg	Leu	Ala	Cys	Val	Asp	Thr

Met	Ser	Gly	Thr	Asn	Gln	Ser	Ser	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Arg	Gln	Pro	Gln	Gln	Gln	His	Leu	Leu	Phe	Val	Phe	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Ala	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ser
		35				40						45			
Val	Ser	Ile	Asp	Ser	Cys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
		50				55					60				
Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Ser	Phe	Thr	Thr	Val	Pro	Lys
65					70					75				80	
Met	Leu	Ala	Asn	His	Ile	Leu	Glu	Thr	Gln	Thr	Ile	Ser	Phe	Cys	Gly
				85					90					95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Val	Phe	Met	Phe	Val	Asp	Met	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	His	Phe	Val	Ala	Val	Cys	His
			115				120					125			
Pro	Leu	His	Tyr	Thr	Ala	Lys	Met	Thr	His	Gln	Leu	Cys	Ala	Leu	Leu
						135					140				
Val	Ala	Gly	Leu	Trp	Val	Val	Ala	Asn	Leu	Asn	Val	Leu	Leu	His	Thr
145					150					155				160	
Leu	Leu	Met	Ala	Pro	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Ala	Ile	Thr	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Thr
			180					185					190		
His	Leu	Asn	Glu	Val	Ile	Ile	Leu	Ser	Glu	Gly	Ala	Leu	Val	Met	Ile
		195					200					205			
Thr	Pro	Phe	Leu	Cys	Ile	Leu	Ala	Ser	Tyr	Met	His	Ile	Thr	Cys	Thr
		210				215						220			
Val	Leu	Lys	Val	Pro	Ser	Thr	Lys	Gly	Arg	Trp	Lys	Ala	Phe	Ser	Thr
225					230					235				240	
Cys	Gly	Ser	His	Leu	Ala	Val	Val	Leu	Leu	Phe	Tyr	Ser	Thr	Ile	Ile
				245					250					255	
Ala	Val	Tyr	Phe	Asn	Pro	Leu	Ser	Ser	His	Ser	Ala	Glu	Lys	Asp	Thr
			260					265					270		
Met	Ala	Thr	Val	Leu	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Tyr	Leu	Lys	Gly	Ala	Leu	Lys	Lys	Val

290 295 300  
 Ile Gly Arg Val Val Phe Ser Val  
 305 310

<210> 2661

<211> 315

<212> PRT

<213> Unknown (OLFMF2 gi|2808536|emb|AJ003145|HSAJ03145 Homo sapiens mRNA for )

<400>2661

Val Gln Thr Tyr Glu Arg Asp Lys Pro Val Ser Val Ser Glu Phe Leu  
 1 5 10 15  
 Leu Leu Gly Leu Ser Arg Gln Pro Gln Gln Gln His Leu Leu Phe Val  
 20 25 30  
 Phe Phe Leu Ser Met Tyr Leu Ala Thr Val Leu Gly Asn Leu Leu Ile  
 35 40 45  
 Ile Leu Ala Ile Ser Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe  
 50 55 60  
 Phe Leu Ser Asn Met Ser Phe Val Asp Asn Cys Phe Ser Thr Thr Val  
 65 70 75 80  
 Pro Lys Met Leu Ala Asn His Ile Leu Arg Thr Gln Thr Ile Ser Phe  
 85 90 95  
 Ser Gly Cys Leu Met Gln Met Tyr Phe Ile Ser Glu Leu Ala Asp Met  
 100 105 110  
 Asp Asn Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Val  
 115 120 125  
 Cys Arg Pro Leu His Tyr Thr Ala Lys Met Ile His Gln Leu Cys Ala  
 130 135 140  
 Leu Leu Val Thr Gly Ser Trp Val Val Ala Asn Ser Asn Ala Leu Leu  
 145 150 155 160  
 His Thr Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Thr Ile  
 165 170 175  
 Pro His Ile Phe Cys Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser  
 180 185 190  
 Asp Thr His Leu Ser Glu Val Met Ile Leu Thr Glu Ala Ala Leu Val  
 195 200 205  
 Thr Ile Thr Pro Phe Leu Cys Leu Leu Ala Ser Tyr Met His Ile Thr  
 210 215 220  
 Cys Val Val Leu Arg Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe  
 225 230 235 240  
 Ser Thr Cys Gly Ser His Leu Ala Val Val Leu Leu Phe Tyr Gly Thr  
 245 250 255  
 Ile Met Ser Pro Tyr Phe Arg Thr Ser Ser Ser His Ser Ala Gln Arg  
 260 265 270  
 Asp Ile Ala Ala Ala Val Arg Phe Thr Val Val Thr Pro Val Met Asn  
 275 280 285  
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Val  
 290 295 300  
 Lys Val Val Ala Val Lys Phe Phe Ser Val Gln  
 305 310 315

<210> 2662

<211> 313

<212> PRT

<213> Unknown (CFDTMT)

<400>2662

Met Thr Glu Lys Asn Gln Thr Val Val Ser Glu Phe Val Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Asp Pro Asp Gln Arg Asp Leu Phe Tyr Ala Leu Phe Leu

Met	Glu	Leu	Glu	Asn	Asp	Thr	Arg	Ile	Pro	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Glu	Glu	Pro	Lys	Leu	Gln	Pro	Phe	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Val	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Leu	Ile	Leu	Ala
		35					40					45			
Val	Ser	Ser	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Thr	Cys	Thr	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Arg	Lys	Val	Ile	Thr	Tyr	Glu	Ser
			85						90					95	
Cys	Ile	Ile	Gln	Met	Tyr	Phe	Phe	Glu	Leu	Phe	Ala	Gly	Ile	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Tyr
		115					120					125			
Pro	Leu	His	Tyr	Met	Val	Ile	Met	Asn	Pro	Gln	Leu	Cys	Ser	Leu	Leu

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      130              135              140
Leu Leu Val Ser Trp Ile Met Ser Ala Leu His Ser Leu Leu Gln Thr
145              150              155              160
Leu Met Val Leu Arg Leu Ser Phe Cys Thr His Phe Gln Ile Pro His
      165              170              175
Phe Phe Cys Glu Leu Asn Gln Met Ile Gln Leu Ala Cys Ser Asp Thr
      180              185              190
Phe Leu Asn Asn Met Met Leu Tyr Phe Ala Ala Ile Leu Leu Gly Val
      195              200              205
Ala Pro Leu Val Gly Val Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser
      210              215              220
Ile Arg Gly Ile Ser Ser Ala His Ser Lys Tyr Lys Ala Phe Ser Thr
225              230              235              240
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr Ser Leu
      245              250              255
Gly Val Tyr Leu Ser Ser Ala Ala Pro Gln Ser Thr His Thr Ser Ser
      260              265              270
Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
      275              280              285
Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Asn Val Phe
      290              295              300
Phe Arg Gly Lys Pro
305

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&lt;210&gt; 2664

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (CfOLF3 (CFU53681) Issel-Tarver-L 97)

&lt;400&gt;2664

```

Met Gly Thr Gly Asn Gln Thr Trp Val Arg Glu Phe Val Leu Leu Gly
 1              5              10              15
Leu Ser Ser Asp Trp Asp Thr Glu Val Ser Leu Phe Val Leu Phe Leu
      20              25              30
Ile Thr Tyr Met Val Thr Val Leu Gly Asn Phe Leu Ile Ile Leu Leu
      35              40              45
Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
      50              55              60
Asn Leu Ser Leu Val Asp Val Ser Tyr Ala Thr Ser Ile Ile Pro Gln
      65              70              75              80
Met Leu Ala His Leu Leu Ala Ala His Lys Ala Ile Pro Phe Val Ser
      85              90              95
Cys Ala Ala Gln Leu Phe Phe Ser Leu Gly Leu Gly Gly Ile Glu Phe
      100              105              110
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asp
      115              120              125
Pro Leu Arg Tyr Ser Val Ile Met His Gly Gly Leu Cys Thr Arg Leu
      130              135              140
Ala Ile Thr Ser Trp Val Ser Gly Ser Met Asn Ser Leu Met Gln Thr
      145              150              155              160
Val Ile Thr Phe Gln Leu Pro Met Cys Thr Asn Lys Tyr Ile Asp His
      165              170              175
Ile Ser Cys Glu Leu Leu Ala Val Val Arg Leu Ala Cys Val Asp Thr
      180              185              190
Ser Ser Asn Glu Ile Ala Ile Met Val Ser Ser Ile Val Leu Leu Met
      195              200              205
Thr Pro Phe Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr
      210              215              220
Ile Leu Lys Ile Gln Ser Thr Glu Gly Arg Lys Lys Ala Phe His Thr
      225              230              235              240
Cys Ala Ser His Leu Thr Val Val Val Leu Cys Tyr Gly Met Ala Ile

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                245                250                255
Phe Thr Tyr Ile Gln Pro Arg Ser Ser Pro Ser Val Leu Gln Glu Lys
                260                265                270
Leu Ile Ser Leu Phe Tyr Ser Val Leu Thr Pro Met Leu Asn Pro Met
                275                280                285
Ile Tyr Ser Val Arg Asn Lys Glu Val Lys Gly Ala Trp Gln Lys Leu
                290                295                300
Leu Gly Gln Leu Thr Gly Ile Thr Ser Lys Leu Ala Thr
305                310                315

```

&lt;210&gt; 2665

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (CfOLF2 (1314663 CFU53680) Issel-Tarver-L 97)

&lt;400&gt;2665

```

Met Asp Gly Lys Asn Cys Ser Ser Val Asn Glu Phe Leu Leu Val Gly
1          5          10          15
Ile Ser Asn Lys Pro Gly Val Lys Val Thr Leu Phe Ile Thr Phe Leu
20         25         30
Ile Val Tyr Leu Ile Ile Leu Val Ala Asn Leu Gly Met Ile Ile Leu
35         40         45
Ile Arg Met Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
50         55         60
His Leu Ser Phe Ser Asp Ala Arg Tyr Ser Thr Ala Val Gly Pro Arg
65         70         75         80
Met Leu Val Gly Phe Ile Ala Lys Asn Lys Ser Ile Pro Phe Tyr Ser
85         90         95
Cys Ala Met Gln Trp Leu Val Phe Cys Thr Phe Val Asp Ser Glu Cys
100        105        110
Leu Leu Leu Ala Val Met Ala Phe Asp Arg Tyr Lys Ala Ile Ser His
115        120        125
Pro Leu Leu Tyr Thr Val Ser Met Ser Ser Arg Val Cys Ser Leu Leu
130        135        140
Met Ala Gly Val Tyr Leu Val Gly Ile Met Asp Ala Ser Val Asn Thr
145        150        155        160
Ile Leu Thr Phe Arg Leu Cys Phe Cys Glu Ser Asn Val Ile Asn His
165        170        175
Phe Phe Cys Asp Val Pro Pro Leu Leu Leu Leu Ser Cys Ser Asp Thr
180        185        190
Gln Val Asn Glu Leu Val Ile Phe Thr Ile Phe Gly Phe Ile Glu Leu
195        200        205
Ile Thr Leu Ser Gly Leu Phe Val Ser Tyr Cys Tyr Ile Ile Leu Ala
210        215        220
Val Arg Lys Ile Asn Ser Ala Glu Gly Arg Phe Lys Ala Phe Ser Thr
225        230        235        240
Cys Thr Ser His Leu Thr Ala Val Ala Ile Phe Gln Gly Thr Met Leu
245        250        255
Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser Leu Asp Gln Asp Lys
260        265        270
Ile Ile Ser Leu Phe Tyr Ser Leu Val Ile Pro Met Leu Asn Pro Leu
275        280        285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu
290        295        300
Lys Asn Lys Lys Trp Phe His
305        310

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&lt;210&gt; 2666

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (CfOLF1 (1314661 CFU53679) Issel-Tarver-L 97)



&lt;400&gt;2666

```

Met Asp Gly Asn Tyr Thr Leu Val Thr Glu Phe Ile Leu Leu Gly Phe
 1      5      10      15
Pro Thr Arg Pro Glu Leu Gln Ile Val Leu Phe Leu Val Phe Leu Thr
      20      25      30
Leu Tyr Gly Ile Ile Leu Thr Gly Asn Ile Gly Leu Met Met Leu Ile
      35      40      45
Arg Thr Asp Pro His Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser Asn
      50      55      60
Leu Ser Phe Ala Asp Leu Cys Phe Ser Ser Ala Ile Val Pro Lys Met
      65      70      75      80
Leu Val Asn Phe Leu Ser Glu Asn Lys Ser Ile Ser Leu Tyr Gly Cys
      85      90      95
Ala Leu Gln Phe Tyr Phe Ser Cys Ala Phe Ala Asp Thr Glu Ser Phe
      100      105      110
Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
      115      120      125
Leu Leu Tyr Thr Val Val Met Ser Arg Gly Ile Cys Val Trp Leu Ile
      130      135      140
Val Leu Ser Tyr Ile Gly Gly Asn Met Ser Ser Leu Val His Thr Ser
      145      150      155      160
Phe Ala Phe Ile Leu Lys Tyr Cys Asp Lys Asn Val Ile Asn His Phe
      165      170      175
Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ser Cys Thr Asp Thr Ser
      180      185      190
Val Asn Glu Trp Leu Leu Ser Thr Tyr Gly Ser Ser Val Glu Ile Phe
      195      200      205
Cys Phe Ile Val Ile Val Ile Ser Tyr Tyr Phe Ile Leu Arg Ser Val
      210      215      220
Leu Arg Ile Arg Ser Ser Ser Gly Arg Lys Lys Thr Phe Ser Thr Cys
      225      230      235      240
Ala Ser His Leu Thr Ser Val Ala Ile Tyr Gln Gly Thr Leu Leu Phe
      245      250      255
Ile Tyr Ser Arg Pro Thr Tyr Leu Tyr Thr Pro Asn Thr Asp Lys Ile
      260      265      270
Ile Ser Val Phe Tyr Thr Ile Ile Ile Pro Val Leu Asn Pro Leu Ile
      275      280      285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ala Lys Arg Ala Val
      290      295      300
Arg Leu Lys Val Asp Ser Ser
      305      310

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&lt;210&gt; 2667

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU42392)

&lt;400&gt;2667

```

Asn Pro Leu Arg Tyr Pro Ala Val Met Thr Ser Asn Met Val Val His
 1      5      10      15
Leu Ser Ala Ala Ala Trp Gly Val Ala Val Val Leu Val Gly Ile Leu
      20      25      30
Ile Gly Leu Thr Val Arg Leu Ser Phe Cys Arg Ser Val Ile Glu Asn
      35      40      45
Pro Phe Cys Asp Asn Ala Ser Leu Phe Lys Leu Ser Cys Glu Ser Thr
      50      55      60
Ala Ile Asn Asn Ile Tyr Gly Leu Ser Phe Thr Val Val Leu Leu Thr
      65      70      75      80
Ser Ser Leu Gly Ser Ile Ala Leu Thr Tyr Leu Arg Ile Ala Ile Val
      85      90      95

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Cys Phe Lys Ser Lys Asn Lys Ala Thr Asn Ser Lys Ala Ile Lys Thr  
 100 105 110  
 Cys Ser Thr His Leu Ala Val Tyr Leu Ile Met Met Val Ser Gly Leu  
 115 120 125  
 Thr Thr Ile Thr Leu His Arg Phe Pro Glu Leu Ser Asp Ser Arg Lys  
 130 135 140  
 Leu Ser Ser Ile Ile Lys His Ile Val Pro Pro  
 145 150 155

&lt;210&gt; 2668

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU42394)

&lt;400&gt;2668

Asn Pro Leu Arg Tyr Gln Thr Ile Met Thr Asn Lys Thr Val Ile Thr  
 1 5 10 15  
 Leu Ser Ala Leu Ala Trp Gly Ile Ala Leu Leu Phe Ile Ser Ile Leu  
 20 25 30  
 Ile Gly Leu Thr Leu Arg Leu Ser Arg Cys Arg Thr Phe Ile Ser Asn  
 35 40 45  
 Pro Phe Cys Asp Asn Ala Ser Leu Phe Lys Leu Ser Cys Glu Asp Val  
 50 55 60  
 Thr Ile Asn Asn Leu Tyr Gly Leu Ile Tyr Thr Val Leu Leu Phe Gly  
 65 70 75 80  
 Ser Ser Met Gly Ser Ile Ala Val Thr Tyr Ile Lys Ile Thr Ala Val  
 85 90 95  
 Cys Leu Val Thr Lys Ser Lys Met Leu Asn Ser Arg Ala Leu Lys Thr  
 100 105 110  
 Cys Ser Thr His Leu Ser Leu Tyr Leu Ile Met Leu Ile Ser Gly Leu  
 115 120 125  
 Ile Ile Ile Val Leu His Arg Phe Pro Ala Tyr Ser Asp Tyr Arg Lys  
 130 135 140  
 Ile Ala Ser Leu Leu Phe His Ile Ile Pro Ser  
 145 150 155

&lt;210&gt; 2669

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU42395)

&lt;400&gt;2669

Leu Pro Leu Arg Tyr His Ala Ile Val Asn Asn Ser Ser Ile Thr Leu  
 1 5 10 15  
 Ile Leu Ser Ala Lys Trp Ala Phe Asn Ser Ser Ile Val Ala Leu Met  
 20 25 30  
 Val Ser Leu Ile Thr Arg Ile Ser Phe Cys Asp Ser Asn Val Ile Gln  
 35 40 45  
 Ser Tyr Phe Cys Asp His Gly Pro Val Tyr Arg Leu Ala Cys Asn Asp  
 50 55 60  
 Asn Ser Ile Asn Arg Phe Met Gly Ser Phe Ile Thr Cys Leu Tyr Leu  
 65 70 75 80  
 Val Val Pro Leu Gly Ile Ile Ile Leu Ser Tyr Ile Gly Ile Phe Leu  
 85 90 95  
 Ala Leu Asn Lys Ile Thr Thr Trp Glu Ser Arg Leu Lys Ala Leu Lys  
 100 105 110  
 Thr Cys Val Ser His Leu Leu Leu Val Gly Ile Tyr Phe Leu Pro Met  
 115 120 125  
 Ser Cys Thr Tyr Ile Ala Ala Trp Leu Leu Ala Leu Ala Pro Asn Ala  
 130 135 140  
 Arg Val Ile Thr Thr Ser Leu Ala Tyr Thr Ile Ser Gln

145

150

155

&lt;210&gt; 2670

&lt;211&gt; 150

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU42396)

&lt;400&gt;2670

```

Leu Ile Ala Ile Cys Leu Pro Leu Arg Tyr His Val Ile Val Asn Asn
 1           5           10           15
Thr Ser Met Ile Ser Ile Phe Ser Ala Val Phe Met Phe Asn Ser Ile
          20           25           30
Ile Val Ala Ser Met Val Ser Leu Val Thr Asn Ile Ser Phe Cys Lys
          35           40           45
Ser Asn Val Ile Gln Ser Tyr Phe Cys Asp His Gly Pro Met Phe Arg
          50           55           60
Met Ala Cys Asn Asp Asn Asn Ile Asn Lys Ile Met Gly Phe Leu Tyr
65           70           75           80
Thr Thr Leu Tyr Leu Ile Ala Pro Met Leu Val Ile Phe Leu Ser Tyr
          85           90           95
Leu Gly Ile Phe Leu Val Val Ser Lys Ile Ala Thr Trp Glu Arg Arg
          100          105          110
Leu Lys Ala Leu Lys Thr Cys Val Ser His Leu Leu Leu Val Gly Ile
          115          120          125
Tyr Phe Leu Pro Ile Phe Phe Thr Tyr Leu Thr Ser Leu Leu Leu Phe
          130          135          140
Ser Thr Ser Asn Ser Arg
145           150

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&lt;210&gt; 2671

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU42397 (odorant receptor 8; 1644478) Weth-F 96)

&lt;400&gt;2671

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Asn Pro Leu Arg Tyr Pro Asn Ile Val Thr Lys Trp Asn Ile Phe Tyr
 1           5           10           15
Leu Cys Leu Ile Ser Trp Val Ile Ala Asn Val Thr Pro Leu Met Met
          20           25           30
Val Ile Arg Ala Tyr Pro Leu Pro Tyr Cys Ala Glu Asn Thr Ile Ile
          35           40           45
Gln Cys Tyr Cys Asp His Ile Ser Ile Thr Ser Leu Ala Cys Thr Asn
          50           55           60
Arg Ala Pro Tyr Ser Ile Pro Ala Phe Val Leu Ala Met Val Ala Leu
65           70           75           80
Leu Thr Pro Leu Ala Phe Ile Val Phe Ser Tyr Cys Ala Ile Ile Leu
          85           90           95
Ala Val Leu Arg Ile Ser Ser Thr Gln Ala Arg Leu Lys Thr Phe Ser
          100          105          110
Thr Cys Ser Pro Gln Leu Ile Ile Ile Ala Leu Tyr Phe Leu Pro Arg
          115          120          125
Cys Phe Ile Tyr Leu Ser Ser Asn Ile Gly Ile Tyr Phe Ser Thr Asp
          130          135          140
Leu Arg Leu Ala Ile Ile Met Met Tyr Ser Leu Phe Pro Pro
145           150           155

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&lt;210&gt; 2672

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU42398 (1151131))

&lt;400&gt;2672

```

Arg Pro Leu Glu Tyr His Ser Ile Met Thr Asp Gln Arg Ile Ile Glu
 1           5           10           15
Cys Ile Leu Phe Cys Trp Leu Thr Pro Phe Phe Cys Met Ala Val Leu
          20           25           30
Ile Gly Leu Thr Ala Arg Leu Thr Leu Cys Gly Ser Ala Ile Glu Lys
          35           40           45
Leu Tyr Cys Glu Asn Trp Ser Val Val Lys Leu Ser Cys Phe Ser Thr
          50           55           60
Thr Val Asn Asn Val Val Gly Tyr Val Ile Ile Ile Val Tyr Phe Gly
65           70           75           80
His Ala Val Leu Ile Phe Cys Ser Tyr Ile Tyr Leu Val Val Lys Cys
          85           90           95
Arg Lys Ser Thr Glu Ser Arg His Lys Phe Ile Gln Thr Cys Val Pro
          100          105          110
His Leu Leu Ala Leu Leu Asn Val Thr Val Ala Leu Leu Phe Asp Val
          115          120          125
Leu Tyr Ser Arg Tyr Gly Ser Lys Ser Leu Pro Gln Asp Leu Arg Asn
          130          135          140
Phe Met Ser Leu Glu Phe Leu Leu Val Pro Pro
145           150           155

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&lt;210&gt; 2673

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU44439)

&lt;400&gt;2673

```

Met Ala Tyr Asp Arg Leu Ile Ala Ile Cys Trp Pro Leu Arg Tyr Ser
 1           5           10           15
Thr Ile Asn Thr Asn Leu Arg Met Leu Leu Ile Ile Ala Leu Ile Trp
          20           25           30
Ile Leu Val Thr Leu Leu Asp Ile Phe Pro Val Ile Phe Ala Ser Arg
          35           40           45
Leu Pro Tyr Cys Ser Ser Arg Ala Val Leu Ser Cys Cys Cys Glu His
          50           55           60
Gly Pro Val Tyr Arg Leu Ala Cys Thr Asp Thr Thr Tyr Asn Arg Gln
65           70           75           80
Leu Gly Thr Val Lys Thr Met Ile Thr Leu Leu Gly Pro Leu Phe Phe
          85           90           95
Ile Val Phe Thr Tyr Val Ile Val Val Ile Ala Val Met Arg Ile Ala
          100          105          110
Ser Val Thr Gln Arg Trp Lys Ala Phe His Thr Cys Leu Thr His Met
          115          120          125
Met Leu Val Met Leu Tyr Tyr Met Pro Ile Ile Ile Ala Cys Val Leu
          130          135          140
Gly Asn Leu Arg Leu Val Gln Asn Val Asp Leu Leu Thr Ala Ile Leu
145           150           155           160
Thr Arg Ser Val Thr Val Pro Ala Met Leu Asn Pro Ile Ile
          165          170

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&lt;210&gt; 2674

&lt;211&gt; 173

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU44440)

&lt;400&gt;2674

```

Leu Ala Tyr Asp Arg Leu Ile Ala Ile Cys Leu Pro Leu Arg Tyr His
 1           5           10           15
Ser Ile Val Asn Asn Ser Asn Met Ile Leu Ile Phe Ser Ala Ile Trp
          20           25           30

```

Ala Phe Asn Ser Ser Val Val Ala Leu Met Val Ser Leu Ile Asp Arg  
 35 40 45  
 Leu Ser Phe Cys Glu Ser Asn Met Ile Gln Ser Tyr Phe Cys Asp His  
 50 55 60  
 Gly Pro Val Tyr Arg Leu Ala Cys Ser Asp Ile Ser Lys Asn Lys Ile  
 65 70 75 80  
 Met Ala Tyr Val Ile Ser Ala Met Tyr Ile Ile Ala Pro Met Val Val  
 85 90 95  
 Ile Val Phe Ser Tyr Leu Gly Ile Phe Leu Ala Leu Ile Lys Ile Thr  
 100 105 110  
 Thr Trp Glu Gly Arg Leu Lys Ala Leu Lys Thr Cys Val Ser His Leu  
 115 120 125  
 Leu Leu Val Gly Ile Phe Phe Leu Pro Leu Phe Cys Thr Tyr Leu Ala  
 130 135 140  
 Gln Leu Leu Leu Ser Leu Asn Pro Asn Ala Arg Val Ile Ser Thr Ser  
 145 150 155 160  
 Leu Ser Tyr Ala Ile Pro Pro Met Leu Asn Pro Ile Ile  
 165 170

&lt;210&gt; 2675

&lt;211&gt; 173

&lt;212&gt; PRT

&lt;213&gt; Unknown (DRU44441)

&lt;400&gt;2675

Leu Ala Tyr Asp Arg Leu Ile Ala Ile Cys Leu Pro Leu Arg Tyr His  
 1 5 10 15  
 Val Ile Val Asn Asn Thr Ser Met Ile Ser Ile Phe Ser Ala Val Phe  
 20 25 30  
 Met Phe Asn Ser Ile Ile Val Ala Ser Met Val Ser Leu Val Thr Asn  
 35 40 45  
 Ile Ser Phe Cys Lys Ser Asn Val Ile Gln Ser Tyr Phe Cys Asp His  
 50 55 60  
 Gly Pro Met Phe Arg Met Ala Cys Asn Asp Asn Ile Ile His Glu Ile  
 65 70 75 80  
 Met Gly Phe Leu Tyr Thr Thr Leu Tyr Leu Ile Ala Pro Met Leu Val  
 85 90 95  
 Ile Phe Leu Ser Tyr Leu Gly Ile Phe Leu Val Val Ser Lys Ile Ala  
 100 105 110  
 Thr Trp Glu Arg Arg Leu Lys Ala Leu Lys Thr Cys Val Ser His Leu  
 115 120 125  
 Leu Phe Val Gly Ile Tyr Phe Leu Pro Ile Phe Phe Thr Tyr Leu Thr  
 130 135 140  
 Ser Leu Leu Leu Phe Ser Thr Ser Asn Ser Arg Val Ile Ser Thr Ser  
 145 150 155 160  
 Leu Ala Tyr Ala Ile Pro Pro Met Leu Asn Pro Ile Ile  
 165 170

&lt;210&gt; 2676

&lt;211&gt; 344

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDA (fish1 L09217 1079242) Ngai-J 93)

&lt;400&gt;2676

Met Thr Ser Val Leu Asn Ala Leu Ser Ala Asn Ala Thr Phe Ile Arg  
 1 5 10 15  
 Pro Ser Thr Phe Tyr Ile Asn Gly Phe Tyr Asn Ile Pro His Thr Lys  
 20 25 30  
 Tyr Tyr Tyr Ala Phe Leu Cys Ile Ala Tyr Ala Val Thr Val Leu Gly  
 35 40 45  
 Asn Ser Phe Ile Met Cys Thr Ile Tyr Leu Ala Arg Ser Leu His Thr

50 55 60  
 Ala Lys Tyr Ile Thr Val Phe Asn Leu Ala Leu Ser Asp Leu Gly Gly  
 65 70 75 80  
 Ser Ser Ala Leu Ile Pro Lys Leu Ile Asp Thr Phe Leu Phe Glu Asn  
 85 90 95  
 Gln Val Ile Ser Tyr Glu Ala Cys Leu Ala Asn Met Phe Phe Val Leu  
 100 105 110  
 Phe Phe Met Thr Val Gln Ser Leu Thr Leu Leu Val Met Ala Tyr Asp  
 115 120 125  
 Arg Val Val Ala Ile Cys Phe Pro Leu Arg Tyr Asn Val Ile Val Thr  
 130 135 140  
 Lys Glu Ala Met Thr Leu Ile Ile Val Ile Thr Trp Ile Phe Ser Ile  
 145 150 155 160  
 Ser Ile Ile Ala Leu Leu Val Ala Leu Ile Thr Arg Leu Ser Phe Cys  
 165 170 175  
 Arg Ser Val Ile Ile Asn Ser Tyr Phe Cys Asp His Gly Pro Ile Leu  
 180 185 190  
 Ile Leu Ala Cys Asn Asp Lys Phe Ile Asn Arg Val Met Ala Ile Gly  
 195 200 205  
 Cys Phe Val Val Leu Asp Cys Val Pro Phe Leu Leu Ile Ile Val Ser  
 210 215 220  
 Tyr Ile Cys Ile Gly Ile Ala Leu Met Asn Ile Ser His Gly Leu Glu  
 225 230 235 240  
 Arg Arg Lys Ala Met Lys Thr Cys Thr Ser His Leu Ile Leu Val Ala  
 245 250 255  
 Leu Phe Tyr Leu Pro Phe Ile Gly Thr Asn Ile Thr Ser Leu Thr Ser  
 260 265 270  
 Ser Ile Asn Ala Asn Asp Arg Ile Leu Asn Ser Thr Leu Thr Gln Ile  
 275 280 285  
 Ile Pro Pro Met Leu Asn Pro Ile Ile Tyr Thr Leu Lys Thr Glu Glu  
 290 295 300  
 Val Met Gln Ala Val Lys Val Leu Tyr Lys Arg Ala Lys Ala Val Val  
 305 310 315 320  
 Ile Cys Asp Ile Pro Asn Gly Gln Val Phe Gln Pro Trp Val Gly Val  
 325 330 335  
 Asp Ser Lys Lys Lys Thr Phe Cys  
 340

&lt;210&gt; 2677

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDB (fish3 L09218 1079244) Ngai-J 93)

&lt;400&gt;2677

Met Ala Asp Asn Ile Thr Ser Ile Leu Ser Leu Thr Ser Thr Asn Ala  
 1 5 10 15  
 Thr Phe Ile Arg Pro Ser Thr Phe Tyr Ile Thr Gly Leu Tyr Asn Ile  
 20 25 30  
 Pro His Ala Lys Tyr Tyr Tyr Leu Phe Leu Cys Phe Val Tyr Thr Val  
 35 40 45  
 Thr Phe Leu Gly Asn Ser Phe Ile Met Gly Thr Ile Tyr Leu Ala Arg  
 50 55 60  
 Ser Leu His Thr Ala Lys Tyr Ile Ala Val Phe Asn Leu Ala Leu Ser  
 65 70 75 80  
 Asp Leu Cys Gly Ser Ser Ala Leu Ile Pro Lys Leu Leu Asp Met Leu  
 85 90 95  
 Leu Phe Glu Asn Gln Ser Ile Ser Tyr Glu Ala Cys Leu Ser Asn Met  
 100 105 110  
 Phe Phe Val Tyr Cys Phe Met Thr Leu Gln Cys Leu Thr Leu Leu Ala  
 115 120 125  
 Leu Ala Tyr Asp Arg Leu Ile Ala Ile Cys Tyr Pro Leu Arg Tyr His

130	135	140
Ala Ile Val Thr Lys	Ala Ala Met Ile Phe Ile	Ile Gly Ala Met Trp
145	150	155
Val Leu Ser Val Ser	Val Asn Ala Val Leu Val	Ala Leu Ile Thr Arg
165	170	175
Leu Ser Phe Cys Arg	Ser Thr Thr Val Tyr Ser Tyr	Phe Cys Asp His
180	185	190
Gly Pro Ile Tyr Lys	Leu Ala Cys Asn Asp Asn Thr	Ile Asn Ser Ile
195	200	205
Met Gly Asn Val Cys	Thr Ala Thr Leu Leu Tyr Phe	Pro Leu Ile Leu
210	215	220
Ile Ile Ala Ser Tyr	Val Cys Ile Gly Phe Ala	Leu Gln Lys Ile Ala
225	230	235
His Gly Val Glu Gln	Val Lys Ala Met Lys Thr	Cys Thr Ser His Leu
245	250	255
Ile Leu Val Ala Met	Phe Tyr Leu Pro Ile Ile	Ser Val Tyr Thr Val
260	265	270
Ala Leu Thr Thr Arg	Ile Asp Thr Asn Ile Arg	Ile Ile Asn Thr Ala
275	280	285
Leu Thr Gln Thr Ile	Pro Pro Met Leu Asn Pro	Ile Ile Tyr Thr Leu
290	295	300
Lys Thr Glu Glu Val	Met Gln Ala Ile Lys	Leu Leu Tyr Lys His Ile
305	310	315
Arg		320

&lt;210&gt; 2678

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDC (fish32A L09219 1079245) Ngai-J 93)

&lt;400&gt;2678

Met Ser Ala Leu Asn Ser Ser Leu Leu Gln Asn Val Ser Phe Val Arg
1 5 10 15
Pro Glu Tyr Phe Phe Ile Ser Gly Phe Ser Gly Ile Pro Phe Ser Gln
20 25 30
Tyr Tyr Phe Ala Phe Leu Ile Phe Ile Tyr Ile Ile Ser Leu Cys Gly
35 40 45
Asn Ser Ile Val Leu Phe Met Ile Leu Val Asp Arg Thr Leu His Ile
50 55 60
Pro Lys Tyr Met Gly Ile Phe Asn Leu Ala Leu Ser Asp Phe Gly Glu
65 70 75 80
Thr Asn Val Leu Ile Pro Ser Leu Val Lys Thr Leu Phe Phe Asp Ser
85 90 95
Gln Tyr Ile Ser Tyr Asp Ala Cys Leu Ala Asn Met Phe Leu Thr Phe
100 105 110
Phe Phe Ser Ser Gly Gln Ala Leu Thr Leu Val Ala Leu Ala Tyr Asp
115 120 125
Arg Phe Ile Ala Ile Cys Leu Pro Leu Arg Tyr Asn Ala Ile Val Asn
130 135 140
Asn Ser Phe Met Phe Ala Ser Leu Thr Ala Ile Trp Ile Phe Asn Val
145 150 155 160
Val Met Asn Gly Thr Leu Val Val Leu Ile Thr Arg Leu Ser Phe Cys
165 170 175
Lys Thr Asn Glu Ile Lys Ser Phe Phe Cys Asp His Gly Pro Val Tyr
180 185 190
Thr Ile Ala Cys Asn Asp Asn Ser Ile Asn Ser Phe Met Ala Lys Leu
195 200 205
Cys Thr Ala Val Tyr Leu Tyr Ala Pro Leu Thr Ala Ile Val Phe Ser
210 215 220
Tyr Leu Gly Ile Leu Leu Ala Leu Thr Lys Ile Thr Thr Trp Glu Ser

225                      230                      235                      240  
 Arg Leu Lys Ala Leu Lys Thr Cys Ile Ser His Leu Leu Val Val Gly  
                                  245                      250                      255  
 Val Phe Phe Leu Pro Ile Val Gly Thr Tyr Leu Ala Ala Val Thr Phe  
                                  260                      265                      270  
 Ser Leu His Pro Asn Ala Arg Ile Ile Asn Thr Ser Leu Ser Arg Thr  
                                  275                      280                      285  
 Ile Pro Pro Met Leu Asn Pro Ile Ile Tyr Val Leu Asn Thr Lys Asp  
                                  290                      295                      300  
 Phe Arg Val Phe Ile Val Lys Met Leu Lys Lys Lys Thr Thr Ile Ile  
 305                                   310                                   315                                   320  
 Ser Gln Val His Ala Leu Ala Lys  
    325

&lt;210&gt; 2679

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDD (fish22 fish202 L09220 1079243) Ngai-J 93)

&lt;400&gt;2679

Met Pro Glu Gly Asn Ile Thr Asn Val Lys Asn Phe Val Ile Leu Gly  
 1                      5                      10                      15  
 Phe Pro Gly Leu Pro Pro Asn Tyr Tyr Gly Leu Val Ser Val Val Met  
                                  20                      25                      30  
 Phe Phe Val Tyr Val Cys Thr Leu Ile Gly Asn Cys Thr Phe Phe Thr  
                                  35                      40                      45  
 Leu Phe Leu Arg Glu Lys Ser Leu Gln Lys Pro Met Tyr Tyr Ile Met  
                                  50                      55                      60  
 Leu Asn Leu Ala Ala Ser Asp Val Leu Phe Ser Thr Thr Thr Leu Pro  
 65                                   70                                   75                                   80  
 Lys Ile Ile Ala Arg Tyr Trp Phe Gly Asp Gly Ser Ile Ser Phe Val  
                                  85                      90                      95  
 Gly Cys Phe Ile Gln Met Gln Phe Val His Tyr Phe Ala Thr Val Asn  
                                  100                      105                      110  
 Ala Leu Val Leu Ala Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys  
                                  115                      120                      125  
 Asn Pro Leu Arg Tyr Val Asn Ile Val Lys Glu Ser Thr Ile Leu Gly  
                                  130                      135                      140  
 Leu Cys Val Val Ser Trp Leu Leu Ala Glu Pro Thr Val Leu Thr Thr  
 145                                   150                                   155                                   160  
 Val Ile Arg Ala Thr Ser Leu Pro Tyr Cys Ala Ser Asn Thr Val Ile  
                                  165                      170                      175  
 Gln Cys Tyr Cys Asp His Val Ser Val Thr Lys Leu Ala Cys Ile Asp  
                                  180                      185                      190  
 Arg Thr Pro Tyr Ala Phe Pro Ala Leu Val Ser Ala Leu Val Met Leu  
                                  195                      200                      205  
 Leu Thr Pro Leu Ala Phe Ile Leu Phe Ser Tyr Gly Ser Ile Ile Val  
                                  210                      215                      220  
 Thr Val Phe Arg Thr Ser Ser Thr Arg Gly Arg Leu Lys Thr Leu Ser  
 225                                   230                                   235                                   240  
 Thr Cys Ser Ser Gln Leu Ile Ile Ile Thr Leu Phe Phe Leu Pro Arg  
                                  245                      250                      255  
 Cys Leu Asn Tyr Leu Ser Ser Ser Leu Gly Ile His Ile Asn Ala Asp  
                                  260                      265                      270  
 Ile Gln Ile Leu Val Ile Met Leu Tyr Ser Leu Leu Pro Pro Met Ile  
                                  275                      280                      285  
 Asn Pro Val Ile Tyr Cys Leu Arg Thr Lys Glu Ala Lys Glu Cys Leu  
                                  290                      295                      300  
 Lys Arg Ser Leu Asn Arg Ser Ser Phe Val Gln Phe Leu Lys Ile Asn  
 305                                   310                                   315                                   320  
 Val Gln Val Ser Thr Leu Ser Asn



325

&lt;210&gt; 2680

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDE (fish47 L09221 1079249) Ngai-J 93)

&lt;400&gt;2680

```

Met Asn Ser Thr Asn Ser Thr Asp Ser Phe Asp Lys Gly Phe Tyr Leu
 1          5          10          15
Ile Ala Tyr Asn Ser Leu Gly Asn Lys Asn Tyr Leu Ile Leu Ala Leu
          20          25          30
Gly Ile Ile Tyr Leu Ile Thr Leu Leu Cys Asn Phe Thr Leu Leu Ala
          35          40          45
Ile Ile Leu Met Asn Ser Ser Leu Gln Asn Pro Lys Phe Leu Ala Val
          50          55          60
Phe Asn Leu Ala Val Val Asp Ile Ser Ile Asn Ser Val Ile Ile Pro
65          70          75          80
Gln Met Val Pro Val Phe Val Phe Asn Leu Asn His Ile Ser Phe Glu
          85          90          95
Ser Cys Phe Ser Gln Met Phe Phe Met His Phe Phe Gly Asp Met Glu
          100          105          110
Ser Phe Ser Leu Ala Leu Leu Ala Tyr Asp Arg Leu Ile Ala Ile Cys
          115          120          125
Phe Pro Leu Arg Tyr Pro Thr Ile Asn Thr Asn Met Arg Met Val Leu
130          135          140
Ile Ile Ala Ser Leu Trp Phe Leu Val Phe Leu Ile Glu Leu Tyr Pro
145          150          155          160
Val Ala Leu Ala Ser Gly Leu Ser Tyr Cys Arg Ser Arg Val Val Pro
          165          170          175
Ser Cys Cys Cys Glu His Gly Pro Val Tyr Asn Leu Ala Cys Gly Asp
          180          185          190
Ile Ser Tyr Asn Lys Arg Leu Ala Leu Ala Lys Thr Leu Val Val Leu
          195          200          205
Leu Gly Pro Leu Thr Phe Ile Ile Cys Ser Tyr Val Ile Val Val Val
          210          215          220
Ala Val Leu Arg Ile Ala Ser Pro Thr Gln Cys Trp Lys Ala Phe Asn
225          230          235          240
Thr Cys Leu Thr His Met Ile Leu Val Leu Ile Tyr Tyr Leu Pro Ile
          245          250          255
Ile Leu Ala Tyr Ile Leu Gly Asn Leu Lys Leu Leu Gln Ser Ala Asp
          260          265          270
Leu Tyr Thr Ala Gly Leu Thr Val Cys Val Thr Leu Pro Ala Met Leu
          275          280          285
Asn Pro Ile Ile Tyr Ser Leu Lys Thr Glu Glu Leu Gln Asp Lys Leu
          290          295          300
Leu Lys Phe Ile Lys Pro Gln Lys Val Ser Asn Thr Val
305          310          315

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&lt;210&gt; 2681

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDF (fish8 L09222 1079250) Ngai-J 93)

&lt;400&gt;2681

```

Met Leu Ala Pro Val Gln Asn Ile Ser Phe Thr Thr Phe Thr Leu Thr
 1          5          10          15
Gly Phe His Asp Leu Gly Glu Trp Gly Pro Ile Leu Ser Ile Pro Tyr
          20          25          30
Leu Leu Met Phe Leu Leu Ser Ser Thr Ser Asn Leu Thr Leu Ile Tyr
          35          40          45

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Leu Ile Ile Ser Gln Arg Ala Leu His Ser Pro Met Cys Ile Leu Ile
 50          55          60
Gly Leu Met Ala Val Val Asp Leu Ser Met Pro Ile Phe Cys Val Pro
65          70          75          80
Asn Met Leu Leu Ser Phe Leu Phe Asn Trp Lys Gly Ile Ser Leu Val
      85          90          95
Gly Cys Leu Val Gln Met Phe Cys Ile His Cys Ala Gly Thr Phe Gln
      100          105          110
Ser Thr Ile Leu Leu Trp Met Ala Leu Asp Arg Phe Phe Ala Ile Cys
      115          120          125
Arg Pro Leu Tyr Tyr Gln Lys Tyr Met Gly Met Pro Asn Phe Leu Lys
      130          135          140
Phe Ile Ile Phe Pro Val Ile Arg Asn Leu Phe Phe Ile Thr Thr Ile
145          150          155          160
Val Ser Trp Ala Gly Lys Leu Thr Phe Cys Glu Thr Asn Glu Ile Asp
      165          170          175
His Cys Val Cys Glu His Met Ala Leu Val Gln Leu Ala Cys Gly Asp
      180          185          190
Ile Ser Ile Asn Asn Ala Leu Gly Leu Leu Thr Val Phe Leu Thr Ile
      195          200          205
Thr Ala Asp Phe Ile Phe Ile Thr Ile Ser Tyr Ile Val Ile Leu Val
      210          215          220
Ser Ile Leu Arg Ser Gly Lys Ala Cys Leu Lys Ala Val Asn Thr Cys
225          230          235          240
Ile Thr His Ile Ile Val Met Thr Val Ser Leu Thr Phe Ala Leu Ile
      245          250          255
Ala Phe Leu Ser Tyr Arg Ile Arg Asn Phe Ser Pro Ser Ser Arg Val
      260          265          270
Phe Leu Ser Thr Met Tyr Leu Phe Ile Pro Ser Cys Phe Asn Pro Ile
      275          280          285
Ile Tyr Gly Val Arg Thr Lys Glu Ile Arg Glu Gln Phe Leu Lys Leu
      290          295          300
Met Lys Tyr Val Lys Val Phe Pro Lys
305          310

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&lt;210&gt; 2682

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDG (fish32D L09223 1079248) Ngai-J 93)

&lt;400&gt;2682

```

Met Asn Ala Leu Asn Ser Ser Leu Leu Gln Asn Val Ser Phe Val Arg
 1          5          10          15
Pro Glu Tyr Phe Phe Ile Ser Gly Phe Ser Gly Ile Pro Phe Ser Gln
      20          25          30
Tyr Tyr Phe Val Phe Leu Ile Phe Ile Tyr Ile Ile Ser Leu Cys Gly
      35          40          45
Asn Ser Ile Val Leu Phe Met Ile Leu Val Asp Arg Thr Leu His Ile
      50          55          60
Pro Lys Tyr Met Gly Ile Phe Asn Leu Ala Leu Ser Asp Phe Gly Glu
65          70          75          80
Thr Asn Ala Leu Ile Pro Ser Leu Val Lys Thr Leu Phe Phe Asp Ser
      85          90          95
Gln Tyr Ile Ser Tyr Asp Ala Cys Leu Ala Asn Met Phe Phe Thr Phe
      100          105          110
Phe Phe Phe Gly Gly Gln Ala Leu Thr Leu Val Ala Leu Ala Tyr Asp
      115          120          125
Arg Phe Ile Ala Ile Cys Leu Pro Leu Arg Tyr His Ala Ile Val Asn
      130          135          140
Asn Ser Phe Met Phe Ala Thr Leu Thr Ala Ile Trp Val Phe Asn Leu
145          150          155          160

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Val Met Ile Gly Thr Leu Val Val Leu Ile Thr Arg Leu Ser Phe Cys  
 165 170 175  
 Lys Thr Asn Glu Ile Lys Ser Phe Phe Cys Asp His Gly Pro Val Tyr  
 180 185 190  
 Thr Ile Ala Cys Asn Asp Asn Ser Ile Asn Ser Phe Met Ala Lys Leu  
 195 200 205  
 Cys Thr Ala Val Tyr Leu Tyr Ala Pro Leu Thr Ala Ile Val Leu Ser  
 210 215 220  
 Tyr Ile Gly Ile Leu Leu Ala Leu Thr Lys Ile Thr Thr Trp Glu Ser  
 225 230 235 240  
 Arg Leu Lys Ala Leu Lys Thr Cys Ile Ser His Leu Leu Val Val Gly  
 245 250 255  
 Val Phe Phe Leu Pro Ile Val Gly Thr Tyr Leu Ala Ala Leu Thr Phe  
 260 265 270  
 Ser Leu His Pro Asn Ala Arg Ile Ile Asn Thr Ser Leu Ser Arg Thr  
 275 280 285  
 Ile Pro Pro Met Leu Asn Pro Ile Ile Tyr Val Leu Asn Thr Lys Asp  
 290 295 300  
 Phe Arg Val Phe Ile Val Lys Met Leu Lys Lys Lys Thr Thr Lys Ile  
 305 310 315 320  
 Ser Gln Val His Ala Leu Ala Lys  
 325

&lt;210&gt; 2683

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDH (fish32C L09224 1079247) Ngai-J 93)

&lt;400&gt;2683

Met Ser Ala Leu Asn Ser Ser Leu Leu Gln Asn Val Ser Phe Val Arg  
 1 5 10 15  
 Pro Glu Tyr Phe Phe Ile Ser Gly Phe Ser Gly Ile Pro Phe Ser Gln  
 20 25 30  
 Tyr Tyr Phe Val Phe Leu Ile Phe Ile Tyr Ile Ile Ser Leu Cys Gly  
 35 40 45  
 Asn Ser Ile Val Leu Phe Met Ile Leu Val Asp Arg Thr Leu His Ile  
 50 55 60  
 Pro Lys Tyr Met Gly Ile Phe Asn Leu Ala Leu Ser Asp Ile Gly Glu  
 65 70 75 80  
 Thr Asn Ala Leu Ile Pro Ser Leu Val Lys Thr Leu Phe Phe Asp Ser  
 85 90 95  
 Gln Tyr Ile Ser Tyr Asp Ala Cys Leu Thr Asn Met Phe Phe Thr Phe  
 100 105 110  
 Phe Phe Ser Gly Gly Gln Ala Leu Thr Leu Val Ala Leu Ala Tyr Asp  
 115 120 125  
 Arg Phe Ile Ala Ile Cys Leu Pro Leu Arg Tyr His Ala Ile Val Asn  
 130 135 140  
 Asn Ser Phe Met Phe Ala Thr Leu Thr Ala Ile Trp Val Phe Asn Leu  
 145 150 155 160  
 Val Ile Phe Gly Thr Thr Val Val Phe Ile Thr Arg Leu Ser Phe Cys  
 165 170 175  
 Lys Thr Asn Glu Ile Lys Ser Phe Phe Cys Asp His Gly Pro Val Tyr  
 180 185 190  
 Thr Ile Ala Cys Asn Asp Asn Ser Ile Asn Ser Phe Met Ala Lys Leu  
 195 200 205  
 Cys Thr Ala Val Tyr Leu Tyr Ala Pro Leu Thr Ala Ile Val Leu Ser  
 210 215 220  
 Tyr Ile Gly Ile Leu Leu Ala Leu Thr Lys Ile Thr Thr Trp Glu Ser  
 225 230 235 240  
 Arg Leu Lys Ala Leu Lys Thr Cys Ile Ser His Leu Leu Val Val Gly  
 245 250 255

Val Phe Phe Leu Pro Ile Val Gly Thr Tyr Leu Ala Ala Leu Thr Phe  
 260 265 270  
 Ser Leu His Pro Asn Ala Arg Ile Asn Thr Ser Leu Ser Arg Thr  
 275 280 285  
 Ile Pro Pro Met Leu Asn Pro Ile Ile Tyr Val Leu Asn Thr Lys Asp  
 290 295 300  
 Phe Arg Val Phe Ile Val Lys Met Leu Lys Lys Lys Thr Thr Lys Ile  
 305 310 315 320  
 Ser Gln Val His Ala Leu Ala Lys  
 325

&lt;210&gt; 2684

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (ICTORDII (fish32B L09225 1079246) Ngai-J 93)

&lt;400&gt;2684

Met Ser Ala Leu Asn Ser Ser Leu Leu Gln Asn Val Ser Phe Val Arg  
 1 5 10 15  
 Pro Glu Tyr Phe Phe Ile Ser Gly Phe Ser Gly Ile Pro Phe Ser Gln  
 20 25 30  
 Tyr Tyr Phe Val Phe Leu Ile Phe Ile Tyr Ile Ile Ser Leu Cys Gly  
 35 40 45  
 Asn Ser Ile Val Leu Phe Met Ile Leu Val Asp Arg Thr Leu His Ile  
 50 55 60  
 Pro Lys Tyr Met Gly Ile Phe Asn Leu Ala Leu Ser Asp Phe Gly Glu  
 65 70 75 80  
 Thr Asn Ala Leu Ile Pro Ser Leu Val Lys Thr Leu Phe Phe Asp Ser  
 85 90 95  
 Gln Tyr Ile Ser Tyr Asp Ala Cys Leu Ala Asn Met Phe Phe Thr Phe  
 100 105 110  
 Phe Phe Ala Gly Gly Gln Ala Leu Thr Leu Val Ala Leu Ala Tyr Asp  
 115 120 125  
 Arg Phe Ile Ala Ile Cys Leu Pro Leu Arg Tyr His Ala Ile Val Asn  
 130 135 140  
 Asn Ser Phe Met Phe Val Thr Leu Ile Ala Ile Trp Val Phe Asn Val  
 145 150 155 160  
 Val Ile Ile Gly Thr Thr Val Val Phe Ile Thr Arg Leu Ser Phe Cys  
 165 170 175  
 Lys Thr Asn Glu Ile Lys Ser Phe Phe Cys Asp His Gly Pro Val Tyr  
 180 185 190  
 Thr Ile Ala Cys Asn Asp Asn Ser Ile Asn Ser Phe Met Ala Tyr Phe  
 195 200 205  
 Cys Thr Ala Val Tyr Leu Tyr Ala Pro Leu Thr Ala Ile Val Leu Ser  
 210 215 220  
 Tyr Ile Gly Ile Leu Leu Ala Leu Thr Lys Ile Thr Thr Trp Glu Ser  
 225 230 235 240  
 Arg Leu Lys Ala Leu Lys Thr Cys Ile Ser His Leu Leu Val Val Gly  
 245 250 255  
 Val Phe Phe Leu Pro Ile Val Gly Thr Tyr Leu Ala Ala Val Thr Phe  
 260 265 270  
 Ser Leu His Pro Asn Ala Arg Ile Asn Thr Ser Leu Ser Arg Thr  
 275 280 285  
 Ile Pro Pro Met Leu Asn Pro Ile Ile Tyr Val Leu Asn Thr Lys Asp  
 290 295 300  
 Phe Arg Val Phe Ile Val Lys Met Leu Lys Lys Lys Thr Thr Ile Ile  
 305 310 315 320  
 Ser Gln Val His Ala Leu Ala Lys  
 325

&lt;210&gt; 2685

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (ol1 (RATOLIRECE L34074) Guillaume-D 94)

&lt;400&gt;2685

```

Met Ser Val Ala Asn Glu Ser Ile Ser Arg Glu Phe Ile Leu Leu Gly
 1          5          10          15
Phe Ser Asp Arg Pro Trp Leu Glu Leu Pro Leu Phe Val Val Phe Leu
          20          25          30
Val Ser Tyr Ile Leu Thr Ile Phe Gly Asn Met Met Ile Ile Leu Val
          35          40          45
Ser Arg Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr
          50          55          60
Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln
          65          70          75          80
Met Leu Ile Asn Ile Cys Ser Thr Arg Lys Val Ile Ser Tyr Gly Gly
          85          90          95
Cys Val Val Gln Leu Phe Ile Phe Leu Ser Leu Gly Ser Thr Glu Cys
          100          105          110
Phe Leu Leu Gly Val Met Ser Leu Asp Arg Phe Leu Ala Ile Cys Arg
          115          120          125
Pro Leu His Tyr Ser Val Ile Met His Gln Arg Arg Cys Leu His Leu
          130          135          140
Ala Ala Ala Cys Trp Ile Ser Gly Phe Ser Asn Ser Val Leu Gln Ser
          145          150          155          160
Thr Trp Thr Leu Gln Met Pro Leu Cys Gly His Lys Glu Val Asp His
          165          170          175
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp Thr
          180          185          190
Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val Leu Phe Leu Leu
          195          200          205
Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Gln Ala
          210          215          220
Val Leu Lys Ile Arg Ser Ala Glu Cys Arg Arg Lys Ala Phe Gly Thr
          225          230          235          240
Cys Gly Ser His Leu Ile Val Val Val Leu Phe Tyr Gly Thr Ala Ile
          245          250          255
Tyr Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Arg Gly Lys
          260          265          270
Met Val Ser Leu Phe Tyr Gly Ile Ile Thr Pro Met Leu Asn Pro Leu
          275          280          285
Ile Tyr Thr Leu Arg Asn Glu Glu Val Lys Gly Ala Phe Lys Arg Leu
          290          295          300
Met Lys Arg Ile Ile Leu Ile Gly Lys
          305          310

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&lt;210&gt; 2686

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Unknown (F3 (RATOLFPROB M64376 RNOLFP15 A23701) Buck-L 91)

&lt;400&gt;2686

```

Met Asp Ser Ser Asn Arg Thr Arg Val Ser Glu Phe Leu Leu Leu Gly
 1          5          10          15
Phe Val Glu Asn Lys Asp Leu Gln Pro Leu Ile Tyr Gly Leu Phe Leu
          20          25          30
Ser Met Tyr Leu Val Thr Val Ile Gly Asn Ile Ser Ile Ile Val Ala
          35          40          45
Ile Ile Ser Asp Pro Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Val Asp Ile Cys Phe Ile Ser Thr Thr Val Pro Lys

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65          70          75          80
Met Leu Val Asn Ile Gln Thr Gln Asn Asn Val Ile Thr Tyr Ala Gly
      85          90          95
Cys Ile Thr Gln Ile Tyr Phe Phe Leu Leu Phe Val Glu Leu Asp Asn
      100        105        110
Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
      115        120        125
Pro Met His Tyr Thr Val Ile Met Asn Tyr Lys Leu Cys Gly Phe Leu
      130        135        140
Val Leu Val Ser Trp Ile Val Ser Val Leu His Ala Leu Phe Gln Ser
145          150          155          160
Leu Met Met Leu Ala Leu Pro Phe Cys Thr His Leu Glu Ile Pro His
      165        170        175
Tyr Phe Cys Glu Pro Asn Gln Val Ile Gln Leu Thr Cys Ser Asp Ala
      180        185        190
Phe Leu Asn Asp Leu Val Ile Tyr Phe Thr Leu Val Leu Leu Ala Thr
      195        200        205
Val Pro Leu Ala Gly Ile Phe Tyr Ser Tyr Phe Lys Ile Val Ser Ser
210          215          220
Ile Cys Ala Ile Ser Ser Val His Gly Lys Tyr Lys Ala Phe Ser Thr
225          230          235          240
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr Gly Leu
      245        250        255
Gly Val Tyr Leu Ser Ser Ala Ala Asn Asn Ser Ser Gln Ala Ser Ala
      260        265        270
Thr Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Val Asn Pro Phe
      275        280        285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ser Val Leu Lys Lys Thr
290          295          300
Leu Cys Glu Glu Val Ile Arg Ser Pro Pro Ser Leu Leu His Phe Phe
305          310          315          320
Leu Val Leu Cys His Leu Pro Cys Phe Ile Phe Cys Tyr
      325        330

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&lt;210&gt; 2687

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (F5 (RATOLFPROC M64377 RNOLF17 OLF5 P23266 B23701) Buck-L 91)

&lt;400&gt;2687

```

Met Ser Ser Thr Asn Gln Ser Ser Val Thr Glu Phe Leu Leu Leu Gly
1          5          10          15
Leu Ser Arg Gln Pro Gln Gln Gln Gln Leu Leu Phe Leu Leu Phe Leu
      20          25          30
Ile Met Tyr Leu Ala Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
      35          40          45
Ile Gly Thr Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
      50          55          60
Asn Leu Ser Phe Val Asp Val Cys Phe Ser Ser Thr Thr Val Pro Lys
65          70          75          80
Val Leu Ala Asn His Ile Leu Gly Ser Gln Ala Ile Ser Phe Ser Gly
      85          90          95
Cys Leu Thr Gln Leu Tyr Phe Leu Ala Val Phe Gly Asn Met Asp Asn
      100        105        110
Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His
      115        120        125
Pro Leu His Tyr Thr Thr Lys Met Thr Arg Gln Leu Cys Val Leu Leu
      130        135        140
Val Val Gly Ser Trp Val Val Ala Asn Met Asn Cys Leu Leu His Ile
145          150          155          160
Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro His

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<210> 2688
<211> 311
<212> PRT
<213> Unknown (F6 (RATOLFPD RNOFP01 M64378) Buck-L 91)
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1641

275                      280                      285  
 Asn Pro Phe Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Glu Ala Leu  
 290                      295                      300  
 Arg Arg Thr Val Lys Gly Lys  
 305                      310

&lt;210&gt; 2689

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (F12 (RATOLFPFROG OLF2 P23268 M64381 D23701) Buck-L 91)

&lt;400&gt;2689

Met Glu Ser Gly Asn Ser Thr Arg Arg Phe Ser Ser Phe Phe Leu Leu  
 1                      5                      10                      15  
 Gly Phe Thr Glu Asn Pro Gln Leu His Phe Leu Ile Phe Ala Leu Phe  
                     20                      25                      30  
 Leu Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Met  
                     35                      40                      45  
 Ala Ile Ile Thr Gln Ser His Leu His Thr Pro Met Tyr Phe Phe Leu  
                     50                      55                      60  
 Ala Asn Leu Ser Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Ile Pro  
 65                      70                      75                      80  
 Lys Met Leu Val Asn Ile Tyr Thr Gln Ser Lys Ser Ile Thr Tyr Glu  
                     85                      90                      95  
 Asp Cys Ile Ser Gln Met Cys Val Phe Leu Val Phe Ala Glu Leu Gly  
                     100                      105                      110  
 Asn Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Arg Cys  
                     115                      120                      125  
 His Pro Leu Cys Tyr Thr Val Ile Val Asn His Arg Leu Cys Ile Leu  
                     130                      135                      140  
 Leu Leu Leu Leu Ser Trp Val Ile Ser Ile Phe His Ala Phe Ile Gln  
 145                      150                      155                      160  
 Ser Leu Ile Val Leu Gln Leu Thr Phe Cys Gly Asp Val Lys Ile Pro  
                     165                      170                      175  
 His Phe Phe Cys Glu Leu Asn Gln Leu Ser Gln Leu Thr Cys Ser Asp  
                     180                      185                      190  
 Asn Phe Pro Ser His Leu Ile Met Asn Leu Val Pro Val Met Leu Ala  
                     195                      200                      205  
 Ala Ile Ser Phe Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser  
                     210                      215                      220  
 Ser Ile His Ser Ile Ser Thr Val Gln Gly Lys Tyr Lys Ala Phe Ser  
 225                      230                      235                      240  
 Thr Cys Ala Ser His Leu Ser Ile Val Ser Leu Phe Tyr Ser Thr Gly  
                     245                      250                      255  
 Leu Gly Val Tyr Val Ser Ser Ala Val Val Gln Ser Ser His Ser Ala  
                     260                      265                      270  
 Ala Ser Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro  
                     275                      280                      285  
 Phe Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Arg Ala Leu Glu Arg  
                     290                      295                      300  
 Leu Leu Glu Gly Asn Cys Lys Val His His Trp Thr Gly  
 305                      310                      315

&lt;210&gt; 2690

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (I3 (RATOLFPFROK OLF0 P23269 M64385 RNOLFP08 E23701) Buck-L 91)

&lt;400&gt;2690

Met Asn Asn Gln Thr Phe Ile Thr Gln Phe Leu Leu Leu Gly Leu Pro  
 1                      5                      10                      15



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Ile Pro Glu Glu His Gln His Leu Phe Tyr Ala Leu Phe Leu Val Met
      20      25      30
Tyr Leu Thr Thr Ile Leu Gly Asn Leu Leu Ile Ile Val Leu Val Gln
      35      40      45
Leu Asp Ser Gln Leu His Thr Pro Met Tyr Leu Phe Leu Ser Asn Leu
      50      55      60
Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys Leu Leu
      65      70      75      80
Gln Asn Met Arg Ser Gln Asp Thr Ser Ile Pro Tyr Gly Gly Cys Leu
      85      90      95
Ala Gln Thr Tyr Phe Phe Met Val Phe Gly Asp Met Glu Ser Phe Leu
      100      105      110
Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu
      115      120      125
His Tyr Thr Ser Ile Met Ser Pro Lys Leu Cys Thr Cys Leu Val Leu
      130      135      140
Leu Leu Trp Met Leu Thr Thr Ser His Ala Met Met His Thr Leu Leu
      145      150      155      160
Ala Ala Arg Leu Ser Phe Cys Glu Asn Asn Val Val Leu Asn Phe Phe
      165      170      175
Cys Asp Leu Phe Val Leu Leu Lys Leu Ala Cys Ser Asp Thr Tyr Ile
      180      185      190
Asn Glu Leu Met Ile Phe Ile Met Ser Thr Leu Leu Ile Ile Ile Pro
      195      200      205
Phe Phe Leu Ile Val Met Ser Tyr Ala Arg Ile Ile Ser Ser Ile Leu
      210      215      220
Lys Val Pro Ser Thr Gln Gly Ile Cys Lys Val Phe Ser Thr Cys Gly
      225      230      235      240
Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile Gly Leu
      245      250      255
Tyr Leu Cys Pro Ala Gly Asn Asn Ser Thr Val Lys Glu Met Val Met
      260      265      270
Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
      275      280      285
Ser Leu Arg Asn Arg Asp Met Lys Arg Ala Leu Ile Arg Val Ile Cys
      290      295      300
Ser Met Lys Ile Thr Leu
      305      310

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&lt;210&gt; 2691

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (I8 (RATOLFPROM M64387 RNOLFP09) Buck-L 91)

&lt;400&gt;2691

```

Met Asn Asn Lys Thr Val Ile Thr His Phe Leu Leu Leu Gly Leu Pro
      1      5      10      15
Ile Pro Pro Glu His Gln Gln Leu Phe Phe Ala Leu Phe Leu Ile Met
      20      25      30
Tyr Leu Thr Thr Phe Leu Gly Asn Leu Leu Ile Val Val Leu Val Gln
      35      40      45
Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser Asn Leu
      50      55      60
Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Leu Lys Leu Leu
      65      70      75      80
Gln Asn Ile Gln Ser Gln Val Pro Ser Ile Ser Tyr Ala Gly Cys Leu
      85      90      95
Thr Gln Ile Phe Phe Phe Leu Leu Phe Gly Tyr Leu Gly Asn Phe Leu
      100      105      110
Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu
      115      120      125

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His Tyr Thr Asn Ile Met Ser His Lys Leu Cys Thr Cys Leu Leu Leu  
 130 135 140  
 Val Phe Trp Ile Met Thr Ser Ser His Ala Met Met His Thr Leu Leu  
 145 150 155 160  
 Ala Ala Arg Leu Ser Phe Cys Glu Asn Asn Val Leu Leu Asn Phe Phe  
 165 170 175  
 Cys Asp Leu Phe Val Leu Leu Lys Leu Ala Cys Ser Asp Thr Tyr Val  
 180 185 190  
 Asn Glu Leu Met Ile His Ile Met Gly Val Ile Ile Ile Val Ile Pro  
 195 200 205  
 Phe Val Leu Ile Val Ile Ser Tyr Ala Lys Ile Ile Ser Ser Ile Leu  
 210 215 220  
 Lys Val Pro Ser Thr Gln Ser Ile His Lys Val Phe Ser Thr Cys Gly  
 225 230 235 240  
 Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile Gly Leu  
 245 250 255  
 Tyr Leu Cys Pro Ser Gly Asp Asn Phe Ser Leu Lys Gly Ser Ala Met  
 260 265 270  
 Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr  
 275 280 285  
 Ser Leu Arg Asn Arg Asp Met Lys Gln Ala Leu Ile Arg Val Thr Cys  
 290 295 300  
 Ser Lys Lys Ile Ser Leu Pro Trp  
 305 310

&lt;210&gt; 2692

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (I9 (RATOLFPRON OLF9 H23701 M64388 RNOLFP10 P23272) Buck-L 91)

&lt;400&gt;2692

Met Thr Arg Arg Asn Gln Thr Ala Ile Ser Gln Phe Phe Leu Leu Gly  
 1 5 10 15  
 Leu Pro Phe Pro Pro Glu Tyr Gln His Leu Phe Tyr Ala Leu Phe Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Ile Ile Ile Leu  
 35 40 45  
 Ile Leu Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ala Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala Gly  
 85 90 95  
 Cys Leu Ala Gln Ile Tyr Phe Phe Leu Phe Phe Gly Asp Leu Gly Asn  
 100 105 110  
 Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser Leu  
 130 135 140  
 Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr  
 145 150 155 160  
 Leu Leu Met Ala Arg Leu Ser Phe Cys Glu Asp Ser Val Ile Pro His  
 165 170 175  
 Tyr Phe Cys Asp Met Ser Thr Leu Leu Lys Val Ala Cys Ser Asp Thr  
 180 185 190  
 His Asp Asn Glu Leu Ala Ile Phe Ile Leu Gly Gly Pro Ile Val Val  
 195 200 205  
 Leu Pro Phe Leu Leu Ile Ile Val Ser Tyr Ala Arg Ile Val Ser Ser  
 210 215 220  
 Ile Phe Lys Val Pro Ser Ser Gln Ser Ile His Lys Ala Phe Ser Thr  
 225 230 235 240

Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile  
                           245                          250                          255  
 Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu Thr  
                           260                          265                          270  
 Val Met Ser Leu Met Tyr Thr Met Val Thr Pro Met Leu Asn Pro Phe  
                           275                          280                          285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Asp Ala Leu Glu Lys Ile  
                           290                          295                          300  
 Met Cys Lys Lys Gln Ile Pro Ser Phe Leu  
 305                          310

&lt;210&gt; 2693

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (I14 (RATOLFFPROQ OLF4 I23701 P23273 M64391 RNOLFP14) Buck-L 91)

&lt;400&gt;2693

Met Thr Gly Asn Asn Gln Thr Leu Ile Leu Glu Phe Leu Leu Leu Gly  
 1                          5                          10                          15  
 Leu Pro Ile Pro Ser Glu Tyr His Leu Leu Phe Tyr Ala Leu Phe Leu  
                           20                          25                          30  
 Ala Met Tyr Leu Thr Ile Ile Leu Gly Asn Leu Leu Ile Ile Val Leu  
                           35                          40                          45  
 Val Arg Leu Asp Ser His Leu His Met Pro Met Tyr Leu Phe Leu Ser  
                           50                          55                          60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
                           65                          70                          75                          80  
 Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Ser Tyr Thr Gly  
                           85                          90                          95  
 Cys Leu Thr Gln Leu Tyr Phe Phe Met Val Phe Gly Asp Met Glu Ser  
                           100                          105                          110  
 Phe Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
                           115                          120                          125  
 Pro Leu Arg Tyr Thr Thr Ile Met Ser Thr Lys Phe Cys Ala Ser Leu  
                           130                          135                          140  
 Val Leu Leu Leu Trp Met Leu Thr Met Thr His Ala Leu Leu His Thr  
                           145                          150                          155                          160  
 Leu Leu Ile Ala Arg Leu Ser Phe Cys Glu Lys Asn Val Ile Leu His  
                           165                          170                          175  
 Phe Phe Cys Asp Ile Ser Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile  
                           180                          185                          190  
 Tyr Val Asn Glu Leu Met Ile Tyr Ile Leu Gly Gly Leu Ile Ile Ile  
                           195                          200                          205  
 Ile Pro Phe Leu Leu Ile Val Met Ser Tyr Val Arg Ile Phe Phe Ser  
                           210                          215                          220  
 Ile Leu Lys Phe Pro Ser Ile Gln Asp Ile Tyr Lys Val Phe Ser Thr  
                           225                          230                          235                          240  
 Cys Gly Ser His Leu Ser Val Val Thr Leu Phe Tyr Gly Thr Ile Phe  
                           245                          250                          255  
 Gly Ile Tyr Leu Cys Pro Ser Gly Asn Asn Ser Thr Val Lys Glu Ile  
                           260                          265                          270  
 Ala Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
                           275                          280                          285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Arg Ala Leu Ile Arg Val  
                           290                          295                          300  
 Ile Cys Thr Lys Lys Ile Ser Leu  
 305                          310

&lt;210&gt; 2694

&lt;211&gt; 314

&lt;212&gt; PRT

<213> Unknown (I15 (RATOLFPROR A37286 M64391 RNOLFP16) Buck-L 91)

<400>2694

```

Met Thr Glu Glu Asn Gln Thr Val Ile Ser Gln Phe Leu Leu Leu Phe
 1          5          10          15
Leu Pro Ile Pro Ser Glu His Gln His Val Phe Tyr Ala Leu Phe Leu
          20          25          30
Ser Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Leu
          35          40          45
Ile His Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys
65          70          75          80
Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Phe Ala Gly
          85          90          95
Cys Leu Thr Gln Leu Tyr Phe Tyr Leu Tyr Phe Ala Asp Leu Glu Ser
          100          105          110
Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
          115          120          125
Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser Leu
          130          135          140
Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr
145          150          155          160
Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro His
          165          170          175
Phe Phe Cys Asp Ile Ser Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr
          180          185          190
His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Leu Val Ile Val
          195          200          205
Ile Pro Phe Val Leu Ile Ile Val Ser Tyr Ala Arg Val Val Ala Ser
          210          215          220
Ile Leu Lys Val Pro Ser Val Arg Gly Ile His Lys Ile Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile
          245          250          255
Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu Thr
          260          265          270
Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Ile Arg Val
          290          295          300
Leu Cys Lys Lys Lys Ile Thr Phe Cys Leu
305          310

```

<210> 2695

<211> 309

<212> PRT

<213> Unknown (RNOLP4 (517366 631861 1083741 S51356) Gat-U 94)

<400>2695

```

Met Met Gly Thr Gly Asn His Ser Ala Val Val Val Phe Val Leu Val
 1          5          10          15
Gly Leu Thr Lys Gln Pro Glu Leu Leu Leu Pro Leu Phe Phe Leu Phe
          20          25          30
Leu Val Ile Tyr Val Leu Thr Val Val Gly Asn Leu Gly Met Ile Leu
          35          40          45
Leu Ile Ile Val Ser Pro Leu Leu His Thr Pro Met Tyr Tyr Phe Leu
          50          55          60
Ser Ser Leu Ser Phe Val Asp Leu Cys Tyr Ser Thr Val Ile Thr Pro
65          70          75          80
Lys Met Leu Val Asn Phe Leu Gly Lys Lys Asn Phe Ile Thr Tyr Ser

```

```
<210> 2696
<211> 318
<212> PRT
<213> Unknown (TB641 (RNU50949 1256393) Thomas-MB 96)
```

<400>2696															
Met	Arg	Arg	Asn	Arg	Asn	Thr	Ser	Leu	Asp	Thr	Val	Val	Thr	Asp	Phe
1				5					10					15	
Leu	Leu	Leu	Gly	Leu	Ala	His	Pro	Pro	Asn	Leu	Arg	Thr	Phe	Leu	Phe
			20					25					30		
Leu	Val	Phe	Leu	Leu	Ile	Tyr	Ile	Leu	Thr	Gln	Leu	Gly	Asn	Leu	Leu
		35					40					45			
Ile	Leu	Leu	Thr	Val	Trp	Ala	Asp	Pro	Lys	Leu	His	Ala	Arg	Pro	Met
	50					55					60				
Tyr	Ile	Leu	Leu	Gly	Val	Leu	Ser	Phe	Leu	Asp	Met	Trp	Leu	Ser	Ser
65				70						75					80
Val	Ile	Val	Pro	Arg	Ile	Ile	Leu	Asn	Phe	Thr	Pro	Ala	Asn	Lys	Ala
				85					90					95	
Ile	Ala	Phe	Gly	Gly	Cys	Val	Ala	Gln	Leu	Tyr	Phe	Phe	His	Phe	Leu
			100					105					110		
Gly	Ser	Thr	Gln	Cys	Phe	Leu	Tyr	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Tyr
		115					120					125			
Leu	Ala	Ile	Cys	Gln	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Asn	Gly	Lys
	130					135					140				
Leu	Cys	Thr	Ile	Leu	Val	Ala	Gly	Ala	Trp	Val	Ala	Gly	Ser	Ile	His
145				150						155					160
Gly	Ser	Ile	Gln	Ala	Thr	Leu	Thr	Phe	Arg	Leu	Pro	Tyr	Cys	Gly	Pro
			165						170					175	
Lys	Glu	Val	Asp	Tyr	Phe	Phe	Cys	Asp	Ile	Pro	Ala	Val	Leu	Arg	Leu
			180					185					190		
Ala	Cys	Ala	Asp	Thr	Ala	Ile	Asn	Glu	Leu	Val	Thr	Phe	Val	Asp	Ile

<210> 2697  
<211> 315  
<212> PRT  
<213> Unknown (TB567 (RNU50948 1256391) Thomas-MB 96)

1648

305

310

315

&lt;210&gt; 2698

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (TB334 (RNU50947 1256389) Thomas-MB 96)

&lt;400&gt;2698

Met	Glu	Asn	Gln	Ser	Val	Ser	Glu	Phe	Phe	Leu	Arg	Gly	Ile	Ser
1				5				10					15	
Gly	Phe	Pro	Glu	Gln	Gln	Gln	Leu	Leu	Tyr	Gly	Leu	Phe	Leu	Cys
			20					25					30	Met
Tyr	Leu	Val	Thr	Leu	Thr	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala	Ile
			35					40					45	Gly
Ser	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn
						55					60			Leu
Ser	Phe	Ala	Asp	Met	Gly	Leu	Ile	Ser	Ser	Thr	Val	Thr	Lys	Met
65						70				75				80
Phe	Asn	Val	Gln	Thr	Gln	Cys	His	Thr	Ile	Ser	Tyr	Thr	Gly	Cys
					85					90				95
Thr	Gln	Met	Tyr	Leu	Phe	Met	Met	Phe	Gly	Asp	Leu	Asp	Ser	Phe
			100					105					110	Phe
Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro
			115					120					125	Leu
His	Tyr	Ser	Thr	Ile	Met	Asn	Ala	Arg	Ile	Cys	Val	Leu	Met	Leu
						135					140			Ile
Leu	Cys	Trp	Ile	Leu	Thr	Asn	Val	Val	Ala	Leu	Thr	His	Thr	Leu
145						150				155				160
Met	Ala	Arg	Leu	Ser	Phe	Cys	Val	Val	Gly	Glu	Ile	Ala	His	Phe
					165				170					175
Cys	Asp	Val	Thr	Ser	Val	Met	Lys	Leu	Ser	Cys	Ser	Asp	Thr	His
			180					185					190	Val
Asn	Glu	Leu	Val	Leu	Ser	Gly	Phe	Gly	Gly	Thr	Val	Leu	Met	Val
			195					200					205	Pro
Phe	Val	Ser	Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Val	Phe	Ala	Val
			210				215				220			Leu
Arg	Ile	Gln	Ser	Ser	Gly	Gly	Ser	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225						230				235				240
Ser	His	Leu	Cys	Val	Val	Cys	Val	Phe	Tyr	Gly	Thr	Leu	Phe	Ser
						245				250				255
Tyr	Leu	Phe	Pro	Ser	Ser	Val	Glu	Thr	Thr	Glu	Lys	Asp	Val	Ala
			260					265					270	Ala
Ala	Ala	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile
			275					280					285	Tyr
Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Gly	Ala	Leu	Lys	Arg	Leu	Leu
			290				295					300		Ser
His	Arg	Arg	Ile	Leu	Ser	Ser								
305							310							

&lt;210&gt; 2699

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (OR12 (423700 S29708) Raming-K 93)

&lt;400&gt;2699

Met	Ile	Met	Asn	Asn	Gln	Thr	Val	Ile	Ser	Gln	Phe	Leu	Leu	Leu
1				5					10				15	Gly
Leu	Pro	Ile	Pro	Pro	Glu	His	Trp	His	Leu	Phe	Tyr	Thr	Leu	Leu
			20					25					30	
Ala	Met	Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Leu
			35					40					45	

```

Ile Leu Leu Asp Ser Asn Leu His Ile Pro Met Tyr Leu Phe Leu Ser
 50          55          60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys
65          70          75          80
Leu Leu Gln Asn Met Gln Asn Gln Asp Thr Ser Ile Thr Tyr Thr Gly
          85          90          95
Cys Leu Thr Gln Met Tyr Phe Ser Met Val Phe Ala Gly Met Glu Ile
          100          105          110
Phe Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Leu
          115          120          125
Pro Leu His Tyr Thr Ser Ile Met Ser Pro Lys Phe Cys Val Cys Leu
          130          135          140
Gly Ser Leu Ser Trp Val Phe Asn Val Leu Tyr Ser Met Leu His Thr
145          150          155          160
Leu Leu Leu Ala Arg Leu Ser Phe Cys Lys Asp Asn Val Ile Pro His
          165          170          175
Phe Phe Cys Asp Ile Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr
          180          185          190
Tyr Ile Asn Glu Leu Met Ile Phe Ile Leu Gly Gly Leu Leu Ile Val
          195          200          205
Ile Pro Phe Leu Leu Ile Val Met Thr Tyr Val Gln Ile Val Cys Ser
          210          215          220
Ile Leu Lys Val Pro Ser Thr Arg Ala Ile Tyr Lys Ile Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Ser Thr Val Ser Leu Phe Tyr Gly Thr Val Ile
          245          250          255
Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu Thr
          260          265          270
Val Met Ala Met Met Ile Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Glu Ala Leu Val Arg Val
          290          295          300
Leu Ile Lys Lys Lys Ile Ser Leu
305          310

```

&lt;210&gt; 2700

&lt;211&gt; 304

&lt;212&gt; PRT

&lt;213&gt; Unknown (OR14 (423701) Raming-K 93)

&lt;400&gt;2700

```

Ser Val Thr Glu Phe Ile Leu Ala Gly Leu Thr Asp Gln Pro Gly Leu
 1          5          10          15
Arg Met Pro Leu Phe Phe Leu Phe Leu Gly Phe Tyr Met Val Thr Val
          20          25          30
Val Gly Asn Leu Ile Gly Leu Phe Leu Ile Gly Leu Asn Ser His Leu
          35          40          45
His Thr Pro Met Tyr Phe Phe Leu Phe Asn Leu Ser Val Val Asp Phe
          50          55          60
Cys Phe Ser Ser Thr Ile Ile Pro Lys Met Leu Met Ser Phe Ile Ser
65          70          75          80
Lys Lys Asn Ile Ile Ser His Ser Gly Cys Met Thr Gln Leu Phe Phe
          85          90          95
Phe Cys Phe Phe Val Val Ser Glu Thr Phe Ile Leu Ser Ala Met Ala
          100          105          110
Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Met Tyr Thr Val Thr
          115          120          125
Met Ser Pro Gln Val Cys Leu Leu Leu Leu Leu Gly Ala Tyr Val Met
          130          135          140
Gly Phe Ser Glu Ala Met Ala His Thr Gly Asn Leu Met Asn Leu Thr
145          150          155          160

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Phe Cys Ala Asp Asn Leu Val Asn His Phe Met Cys Asp Ile Leu Pro
165 170 175
Leu Leu Glu Leu Ser Cys Asn Ser Thr Phe Ile Asn Glu Leu Val Val
180 185 190
Phe Ile Val Val Ala Ile Asp Ile Ala Val Pro Ile Val Ser Ile Phe
195 200 205
Ile Ser Tyr Ala Leu Ile Leu Ser Ser Ile Leu Arg Met His Ser Thr
210 215 220
Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys Ser Ser His Leu Ile Val
225 230 235 240
Val Cys Leu Leu Phe Gly Ser Gly Ala Phe Met Tyr Leu Lys Leu Pro
245 250 255
Ser Ile Leu Pro Leu Asp Gln Gly Lys Val Ser Ser Leu Phe Tyr Thr
260 265 270
Ile Val Val Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys
275 280 285
Asp Val Lys Val Ala Leu Arg Lys Thr Leu Gly Lys Ile Ile Leu Ser
290 295 300

```

&lt;210&gt; 2701

&lt;211&gt; 307

&lt;212&gt; PRT

&lt;213&gt; Unknown (OR18 (423702) Raming-K 93)

&lt;400&gt;2701

```

Met Gly Glu Asn Asn Asn Ile Thr Glu Phe Ile Leu Leu Gly Leu Thr
1 5 10 15
Gln Asp Pro Asp Gly Arg Lys Ala Leu Phe Val Ile Phe Phe Leu Ile
20 25 30
Tyr Ile Val Thr Met Met Gly Asn Leu Leu Ile Val Val Thr Val Ile
35 40 45
Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu
50 55 60
Ser Leu Leu Asp Ala Leu Phe Ser Thr Ala Ile Ser Pro Lys Leu Ile
65 70 75 80
Ala Asp Leu Leu Tyr Asp Gln Lys Thr Ile Ser Phe Arg Ala Cys Met
85 90 95
Ser Gln Leu Phe Ile Glu His Leu Phe Gly Gly Val Asp Ile Val Ile
100 105 110
Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
115 120 125
His Tyr Leu Ala Ile Met Asn Arg Arg Val Cys Ile Thr Leu Leu Ile
130 135 140
Phe Ala Trp Thr Gly Gly Phe Thr His Ser Leu Ile Gln Ile Val Phe
145 150 155 160
Val Tyr Asn Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Ile
165 170 175
Cys Asp Met Ser Pro Leu Leu Val Leu Ala Cys Thr Asp Thr Tyr Phe
180 185 190
Ile Gly Leu Thr Val Ile Ala Asn Gly Gly Val Asn Cys Ile Val Ile
195 200 205
Phe Thr Leu Leu Leu Gly Ser Tyr Gly Ile Ile Leu Arg Ser Leu Lys
210 215 220
Thr Gln Ser Gln Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ser Ser
225 230 235 240
His Ile Leu Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Met Tyr
245 250 255
Ala Arg Pro Val Tyr Asn Phe Pro Ile Asp Lys Cys Ile Thr Val Phe
260 265 270
Tyr Thr Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
275 280 285

```

Asn Ser Glu Ile Lys Ser Cys Met Lys Lys Leu Trp Cys Lys Met Leu  
 290 295 300  
 His Ala Asp  
 305

<210> 2702

<211> 314

<212> PRT

<213> Unknown (OR5 (423703 444281) Raming-K 93)

<400>2702

Met Thr Glu Arg Asn Gln Thr Val Ile Ser Gln Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Pro Pro Glu His Gln His Val Gly Tyr Ala Leu Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Thr Thr Ile Leu Gly Asn Leu Ile Ile Ile Leu  
 35 40 45  
 Ile Leu Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
 65 70 75 80  
 Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala Gly  
 85 90 95  
 Cys Leu Ser Gln Ile Tyr Phe Phe Leu Phe Phe Gly Asp Leu Gly Asn  
 100 105 110  
 Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser Leu  
 130 135 140  
 Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr  
 145 150 155 160  
 Leu Leu Met Ala Arg Leu Ser Phe Cys Glu Asp Asn Val Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Arg Val Asn Glu Val Val Ile Phe Ile Val Val Ser Leu Phe Leu Val  
 195 200 205  
 Leu Pro Phe Ala Leu Ile Ile Met Ser Tyr Val Arg Ile Val Ser Ser  
 210 215 220  
 Ile Leu Lys Val Pro Ser Ser Gln Gly Ile Tyr Lys Ala Phe Ser Ser  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile  
 245 250 255  
 Pro Leu Tyr Leu Cys Pro Ser Ser Asn Ser Thr Val Lys Glu Thr  
 260 265 270  
 Val Met Ser Leu Met Tyr Thr Leu Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Ala Met Glu Ile Ile  
 290 295 300  
 Phe Cys Lys Arg Lys Ile Gln Leu Asn Leu  
 305 310

<210> 2703

<211> 305

<212> PRT

<213> Unknown (OR37 (423699 S29711 265086) Raming-K 93)

<400>2703

Leu Leu Leu Gly Leu Ser Gly Tyr Pro Lys Thr Glu Ile Leu Tyr Phe  
 1 5 10 15  
 Val Ile Val Leu Val Met Tyr Leu Val Ile His Thr Gly Asn Gly Val

```

      20      25      30
Leu Ile Ile Ala Ser Ile Phe Asp Ser His Leu His Thr Pro Met Tyr
      35      40      45
Phe Phe Leu Gly Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser
      50      55      60
Ser Val Pro Ser Thr Leu Val Ser Leu Ile Ser Lys Lys Arg Asn Ile
      65      70      75      80
Ser Phe Ser Gly Cys Thr Val Gln Met Phe Val Gly Phe Ala Met Gly
      85      90      95
Ser Thr Glu Cys Leu Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val
      100      105      110
Ala Ile Cys Asn Pro Leu Arg Tyr Ser Val Ile Met Ser Lys Glu Val
      115      120      125
Tyr Val Ser Met Ala Ser Ala Ser Trp Phe Ser Gly Gly Ile Asn Ser
      130      135      140
Val Val Gln Thr Ser Leu Ala Met Arg Leu Pro Phe Cys Gly Asn Asn
      145      150      155      160
Val Ile Asn His Phe Thr Cys Glu Val Leu Ala Val Leu Lys Leu Ala
      165      170      175
Cys Ala Asp Ile Ser Leu Asn Ile Val Thr Met Val Ile Ser Asn Met
      180      185      190
Ala Phe Leu Val Leu Pro Leu Leu Leu Ile Phe Phe Ser Tyr Val Leu
      195      200      205
Ile Leu Tyr Thr Ile Leu Arg Met Asn Ser Ala Ser Gly Arg Arg Lys
      210      215      220
Ala Phe Ser Thr Cys Ser Ala His Leu Thr Val Val Val Ile Phe Tyr
      225      230      235      240
Gly Thr Ile Phe Ser Met Tyr Ala Lys Pro Lys Ser Gln Asp Leu Thr
      245      250      255
Gly Lys Asp Lys Phe Gln Thr Ser Asp Lys Ile Ile Ser Leu Phe Tyr
      260      265      270
Gly Val Val Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn
      275      280      285
Lys Asp Val Lys Ala Ala Val Lys Tyr Ile Leu Lys Gln Lys Tyr Ile
      290      295      300
Pro
305

```

&lt;210&gt; 2704

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (RNOLFRECP (1504112) Raming-K 93)

&lt;400&gt;2704

```

Met Thr Glu Arg Asn Gln Thr Val Ile Ser Gln Phe Leu Leu Leu Gly
  1      5      10      15
Leu Pro Ile Pro Pro Glu His Gln His Val Phe Tyr Ala Leu Phe Leu
      20      25      30
Ser Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Leu
      35      40      45
Ile Leu Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
      50      55      60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys
      65      70      75      80
Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala Gly
      85      90      95
Cys Leu Ser Gln Ile Tyr Phe Phe Leu Phe Phe Gly Asp Leu Gly Asn
      100      105      110
Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
      115      120      125
Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser Leu

```

130	135	140
Val Val Leu Ser Trp	Val Leu Thr Thr Phe	His Ala Met Leu His Thr
145	150	155
Leu Leu Met Ala Arg	Leu Ser Phe Cys Glu Asp	Asn Val Ile Pro His
	165	170
Phe Phe Cys Asp Met	Ser Ala Leu Leu Lys Leu	Ala Cys Ser Asp Thr
	180	185
Arg Val Asn Glu Val	Val Ile Phe Ile Val Val	Ser Leu Phe Leu Val
	195	200
Leu Pro Phe Ala Leu	Ile Ile Met Ser Tyr Val	Arg Ile Val Ser Ser
	210	215
Ile Leu Lys Val Pro	Ser Ser Gln Gly Ile Tyr	Lys Ala Phe Ser Thr
225	230	235
Cys Gly Ser His Leu	Ser Val Val Ser Leu	Phe Tyr Gly Thr Val Ile
	245	250
Gly Leu Tyr Leu Cys	Pro Ser Ser Asn Asn	Ser Thr Val Lys Glu Thr
	260	265
Val Met Ser Leu Met	Tyr Thr Val Val Thr	Pro Met Leu Asn Pro Phe
	275	280
Ile Tyr Ser Leu Arg	Asn Arg Asp Ile Lys	Gly Ala Met Glu Arg Ile
	290	295
Phe Cys Lys Arg Lys	Ile Gln Leu Asn Leu	
305	310	

&lt;210&gt; 2705

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (1906335A (444281) Raming-K 93)

&lt;400&gt;2705

Met Thr Glu Arg Asn	Gln Thr Val Ile Ser	Gln Phe Leu Leu Leu Gly
1	5	10
Leu Pro Ile Pro Pro	Glu His Gln His Val	Phe Tyr Ala Leu Phe Leu
	20	25
Ser Met Tyr Leu Thr	Thr Ile Leu Gly Asn	Leu Ile Ile Ile Ile Leu
	35	40
Ile Leu Leu Asp Ser	His Leu His Thr	Pro Met Tyr Leu Phe Leu Ser
	50	55
Asn Leu Ser Phe Ser	Asp Leu Cys Phe Ser	Ser Val Thr Met Pro Lys
65	70	75
Leu Leu Gln Asn Met	Gln Ser Gln Val Pro	Ser Ile Pro Tyr Ala Gly
	85	90
Cys Leu Ser Gln Ile	Tyr Phe Phe Leu Phe	Phe Gly Asp Leu Gly Asn
	100	105
Phe Leu Leu Val Ala	Met Ala Tyr Asp	Arg Tyr Val Ala Ile Cys Phe
	115	120
Pro Leu His Tyr Met	Ser Ile Met Ser	Pro Lys Leu Cys Val Ser Leu
	130	135
Val Val Leu Ser Trp	Val Leu Thr Thr Phe	His Ala Met Leu His Thr
145	150	155
Leu Leu Met Ala Arg	Leu Ser Phe Cys Glu	Asp Asn Val Ile Pro His
	165	170
Phe Phe Cys Asp Met	Ser Ala Leu Leu Lys	Leu Ala Cys Ser Asp Thr
	180	185
Arg Val Asn Glu Val	Val Ile Phe Ile Val	Val Ser Leu Phe Leu Val
	195	200
Leu Pro Phe Ala Leu	Ile Ile Met Ser Tyr	Val Arg Ile Val Ser Ser
	210	215
Ile Leu Lys Val Pro	Ser Ser Gln Gly Ile Tyr	Lys Ala Phe Ser Ser
225	230	235
Cys Gly Ser His Leu	Ser Val Val Ser Leu	Phe Tyr Gly Thr Val Ile

			245					250					255			
Pro	Leu	Tyr	Leu	Cys	Pro	Ser	Ser	Asn	Asn	Ser	Thr	Val	Lys	Glu	Thr	
			260					265					270			
Val	Met	Ser	Leu	Met	Tyr	Thr	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	
			275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Gly	Ala	Met	Glu	Ile	Ile	
			290				295					300				
Phe	Cys	Lys	Arg	Lys	Ile	Gln	Leu	Asn	Leu							
305					310											

&lt;210&gt; 2706

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Unknown (PTE01 (544449) Abe-K 93)

&lt;400&gt;2706

Met	Tyr	Leu	Phe	Leu	Ser	Asn	Leu	Ser	Leu	Ala	Asp	Ile	Ser	Phe	Thr	
1			5						10					15		
Ser	Thr	Thr	Leu	Pro	Lys	Met	Ile	Val	Asp	Ile	Gln	Thr	Asn	Asn	Arg	
			20					25					30			
Ala	Ile	Ser	Tyr	Ser	Gly	Cys	Leu	Thr	Gln	Met	Ser	Phe	Phe	Met	Leu	
			35				40					45				
Phe	Gly	Cys	Leu	Asp	Ser	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg		
			50			55				60						
Phe	Val	Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Gln	Val	Ile	Met	Asn	Pro	
65					70				75						80	
Arg	Leu	Cys	Gly	Leu	Leu	Val	Phe	Leu	Ser	Ile	Leu	Ile	Ser	Leu	Leu	
				85					90					95		
Val	Ser	Gln	Leu	His	Asn	Ser	Val	Val	Leu	Gln	Leu	Thr	Tyr	Phe	Lys	
			100					105					110			
Ser	Val	Asp	Ile	Ser	His	Phe	Phe	Cys	Asp	Pro	Ser	Leu	Leu	Leu	Asn	
			115				120					125				
Leu	Ala	Cys	Ser	Asp	Thr	Phe	Thr	Asn	Asn	Ile	Val	Met	Tyr	Phe	Val	
			130				135				140					
Gly	Ala	Ile	Ser	Gly	Phe	Leu	Pro	Ile	Ser	Gly	Ile	Phe	Phe	Ser	Tyr	
145					150				155						160	
Tyr	Lys	Ile	Val	Ser	Ser	Ile	Leu	Arg	Met	Pro	Ser	Pro	Gly	Gly	Lys	
				165					170					175		
Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser								
			180					185								

&lt;210&gt; 2707

&lt;211&gt; 168

&lt;212&gt; PRT

&lt;213&gt; Unknown (PTE03 (544450) Abe-K 93)

&lt;400&gt;2707

Thr	Thr	Val	Pro	Lys	Met	Leu	Ile	Asn	Leu	Gln	Lys	Gln	Asn	Lys	Ala	
1				5					10					15		
Ile	Ser	Tyr	Ala	Gly	Cys	Ile	Thr	Gln	Leu	Ser	Phe	Val	Leu	Leu	Phe	
			20					25					30			
Ala	Gly	Met	Glu	Asn	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	
			35				40					45				
Val	Ala	Ile	Cys	Lys	Pro	Leu	Arg	Tyr	Thr	Ala	Ile	Met	Lys	Ala	His	
			50			55				60						
Leu	Cys	Leu	Val	Met	Thr	Leu	Leu	Ser	Leu	Cys	Ile	Ser	Ile	Val	Asp	
65					70				75						80	
Ala	Leu	Leu	His	Gly	Leu	Met	Ile	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Phe	
				85					90					95		
Leu	Glu	Ile	Pro	His	Tyr	Phe	Cys	Glu	Leu	Tyr	Gln	Val	Ile	Lys	Leu	
			100					105					110			

Ser Cys Ser Asp Thr Leu Ile Asn Asn Ile Leu Val Tyr Thr Met Thr  
 115 120 125  
 Ser Thr Leu Gly Gly Val Pro Leu Gly Gly Ile Ile Phe Ser Tyr Phe  
 130 135 140  
 Lys Ile Ile Ser Ser Ile Leu Arg Met Pro Ser Ser Gly Ser Arg His  
 145 150 155 160  
 Arg Ala Phe Ser Thr Cys Gly Ser  
 165

&lt;210&gt; 2708

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Unknown (PTE33 (544451) Abe-K 93)

&lt;400&gt;2708

Met Tyr Leu Phe Phe Ser Asn Leu Ser Phe Val Asp Ile Tyr Phe Ile  
 1 5 10 15  
 Ser Gly Thr Ile Pro Lys Ile Leu Val Asn Met Gln Ser Lys Thr Lys  
 20 25 30  
 Asp Ile Ser Tyr Ile Glu Cys Leu Thr Gln Val Tyr Phe Phe Asn Thr  
 35 40 45  
 Phe Val Gly Met Asp Asp Val Leu Arg Thr Leu Met Ala Tyr Asp Arg  
 50 55 60  
 Phe Val Ala Ile Cys Met Pro Leu Lys Tyr Thr Val Ile Met Asn Pro  
 65 70 75 80  
 Arg Val Cys Thr Leu Leu Val Leu Met Phe Trp Ile Ile Met Phe Cys  
 85 90 95  
 Ile Ser Leu Ile His Val Leu Leu Met Asn Glu Leu Asn Phe Ser Arg  
 100 105 110  
 Gly Thr Lys Ile Pro His Phe Phe Cys Glu Leu Ala Gln Val Leu Lys  
 115 120 125  
 Val Ser Asn Ser Asp Thr His Ile Asn Asn Ile Phe Met Tyr Val Leu  
 130 135 140  
 Ser Ser Leu Leu Gly Val Ile Pro Met Thr Gly Ile Leu Met Ser Tyr  
 145 150 155 160  
 Ser Gln Ile Val Ser Ser Leu Leu Arg Met Ser Ser Thr Val Ser Lys  
 165 170 175  
 Tyr Lys Ala Phe Ser Thr Cys Gly Ser His Leu Cys Val Val Cys Leu  
 180 185 190  
 Phe Tyr Gly Ser Val Ile Gly Val Tyr Phe Ser Ser Ser Val Val Leu  
 195 200 205  
 Ser Thr Gln Arg Ile Met Val Ala Ser Leu Met Tyr Thr Val Ile Ser  
 210 215 220  
 Pro Met Phe Asn Pro Phe Ile Tyr Ser Leu  
 225 230

&lt;210&gt; 2709

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Unknown (PTE38 (544452) Abe-K 93)

&lt;400&gt;2709

Met Tyr Leu Phe Phe Ser Asn Leu Ser Phe Asn Asp Ile Cys Ile Ile  
 1 5 10 15  
 Thr Thr Thr Ile Pro Lys Met Leu Met Asn Val Gln Ser His Asp Gln  
 20 25 30  
 Ser Ile Thr Tyr Leu Gly Cys Leu Ser Gln Val Tyr Leu Ile Val Asn  
 35 40 45  
 Phe Gly Ser Ile Glu Ser Cys Leu Leu Ala Val Met Ala Tyr Asp Arg  
 50 55 60  
 Tyr Val Ala Ile Cys His Pro Leu Lys Tyr Thr Val Ile Met Asn His

65		70		75		80
Tyr	Phe	Cys	Val	Met	Leu	Leu
				85		
Met	Cys	Leu	Phe	His	Ile	Leu
				100		
Lys	Thr	Glu	Ile	Pro	His	Phe
				115		
Leu	Thr	Cys	Ser	Asp	Asn	Phe
				130		
Ser	Val	Leu	Phe	Phe	Gly	Val
145					150	
Ile	Tyr	Thr	Val	Ser	Ser	Val
				165		
Tyr	Lys	Ala	Phe	Ser	Thr	Cys
				180		
Phe	Tyr	Gly	Thr	Gly	Phe	Gly
				195		
Ser	Pro	Arg	Lys	Thr	Val	Val
				210		
Gln	Met	His	Gly	Pro	Phe	Ile
225					230	

&lt;210&gt; 2710

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Unknown (PTE45 (544453) Abe-K 93)

&lt;400&gt;2710

Met	Tyr	Leu	Phe	Phe	Ser	Asn	Leu	Ser	Phe	Ala	Asp	Ile	Cys	Leu	Ile
1				5					10					15	
Ser	Thr	Thr	Ile	Pro	Lys	Met	Leu	Ala	Asn	Glu	His	Leu	Asn	His	Lys
			20					25					30		
Ala	Ile	Thr	Tyr	Glu	Gly	Cys	Ile	Met	Gln	Ile	Tyr	Phe	Phe	Thr	Leu
			35				40					45			
Phe	Val	Gly	Leu	Asp	Asn	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg
			50			55					60				
Phe	Val	Ala	Ile	Cys	His	Pro	Leu	Arg	Tyr	Thr	Ser	Ile	Met	Thr	Pro
65					70				75					80	
His	Leu	Cys	His	Ser	Leu	Val	Leu	Val	Ser	Trp	Ile	Thr	Ser	Val	Leu
			85						90					95	
Asn	Ser	Ser	Leu	Gln	Ser	Phe	Leu	Val	Leu	Gln	Leu	Ser	Phe	Cys	Thr
			100					105					110		
Glu	Val	Glu	Ile	Pro	His	Phe	Phe	Cys	Glu	Leu	Ser	Met	Leu	Val	His
			115				120					125			
Leu	Ala	Cys	Ser	Asp	Thr	Phe	Leu	Ser	Asp	Met	Ala	Met	Asn	Val	Leu
			130			135					140				
Ala	Ala	Leu	Leu	Gly	Gly	Gly	Cys	Leu	Val	Gly	Ile	Leu	Tyr	Ser	Tyr
145						150				155				160	
Ser	Lys	Ile	Val	Ser	Ser	Ile	Gln	Ala	Ile	Ser	Ser	Ala	Glu	Gly	Lys
				165					170					175	
Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Val	Ser	His	Leu	Ser	Val	Val	Ser	Leu
			180					185					190		
Phe	Tyr	Cys	Thr	Leu	Leu	Gly	Val	Tyr	Leu	Ser	Ser	Ala	Val	Thr	Gln
			195				200					205			
Asn	Ser	His	Ser	Thr	Ala	Ala	Thr	Ser	Leu	Met	Tyr	Thr	Val	Val	Thr
			210			215					220				
Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Phe	Phe						
225						230									

&lt;210&gt; 2711

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Unknown (PTE58 (544454) Abe-K 93)

&lt;400&gt;2711

```

Leu Leu Met Cys Asn Leu Cys Phe Ala Asp Ile Cys Phe Thr Ser Ala
 1          5          10          15
Ser Ile Pro Thr Asn Leu Val Asn Ile Gln Thr Lys Asn Lys Val Ile
          20          25          30
Thr Tyr Glu Gly Cys Ile Ser Gln Val Tyr Phe Phe Ile Leu Phe Gly
          35          40          45
Val Leu Asp Asn Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val
          50          55          60
Ala Ile Cys His Pro Leu His Tyr Thr Val Ile Met Asn Arg Arg Leu
65          70          75          80
Cys Gly Leu Leu Val Leu Gly Ser Trp Val Thr Thr Ala Leu Asn Ser
          85          90          95
Leu Leu Gln Ser Ser Met Ala Leu Arg Leu Ser Phe Cys Thr Asp Leu
          100          105          110
Lys Ile Pro His Phe Val Cys Glu Leu Asn Gln Leu Val Leu Leu Ala
          115          120          125
Cys Asn Asp Thr Phe Pro Asn Asp Met Val Met Tyr Phe Ala Ala Val
          130          135          140
Leu Leu Gly Gly Gly Pro Leu Ala Gly Ile Leu Tyr Ser Tyr Ser Lys
145          150          155          160
Ile Val Ser Ser Ile Arg Ala Ile Ser Ser Ser Gln Gly Lys Tyr Lys
          165          170          175
Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr
          180          185          190
Ser Thr Leu Leu Gly Val Tyr Leu Ser Ser Ser Phe Thr Gln Asn Ser
          195          200          205
His Ser Thr Ala Arg Ala Ser Val Met Tyr Ser Val Val Thr Pro Met
          210          215          220
Leu Asn Pro Phe Ile Tyr Phe Phe
225          230

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&lt;210&gt; 2712

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (RATGUST27 (D12820 P34987 A46750) Abe-K 93)

&lt;400&gt;2712

```

Met Ile Leu Asn Cys Asn Pro Phe Ser Gly Leu Phe Leu Ser Met Tyr
 1          5          10          15
Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Val Ser Ser
          20          25          30
Asn Ser His Leu His Asn Leu Met Tyr Phe Phe Leu Ser Asn Leu Ser
          35          40          45
Phe Val Asp Ile Cys Phe Ile Ser Thr Thr Ile Pro Lys Met Leu Val
          50          55          60
Asn Ile His Ser Gln Thr Lys Asp Ile Ser Tyr Ile Glu Cys Leu Ser
65          70          75          80
Gln Val Tyr Phe Leu Thr Thr Phe Gly Gly Met Asp Asn Phe Leu Leu
          85          90          95
Thr Leu Met Ala Cys Asp Arg Tyr Val Ala Ile Cys His Pro Leu Asn
          100          105          110
Tyr Thr Val Ile Met Asn Leu Gln Leu Cys Ala Leu Leu Ile Leu Met
          115          120          125
Phe Trp Leu Ile Met Phe Cys Val Ser Leu Ile His Val Leu Leu Met
          130          135          140
Asn Glu Leu Asn Phe Ser Arg Gly Thr Glu Ile Pro His Phe Phe Cys
145          150          155          160

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<210> 2713

<211> 222

<212> PRT

<213> Unknown (K7 (MUSODORECA L14566 293754 464305 C40745) Ressler-KJ 93)

<400>2713

<210> 2714

**<211> 222**

<212> PRT

<213> Unknown (M50 (MUSODORECB L14567 293756 P34986 OLF5) Buck 93)

&lt;400&gt;2714

```

Tyr Phe Leu Ser Thr Met Ser Phe Leu Glu Ala Trp Tyr Ile Ser Val
 1           5           10           15
Thr Val Pro Lys Met Leu Ala Gly Phe Leu Phe His Pro Asn Thr Ile
      20           25           30
Ser Phe Leu Gly Cys Met Thr Gln Leu Tyr Phe Phe Met Ser Leu Ala
      35           40           45
Cys Thr Glu Cys Val Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
      50           55           60
Ala Ile Cys Trp Pro Leu Arg Tyr Pro Val Met Thr Thr Gly Phe
      65           70           75           80
Cys Val Gln Leu Thr Ile Ser Ser Trp Val Ser Gly Phe Thr Ile Ser
      85           90           95
Met Ala Lys Val Tyr Phe Leu Ser Arg Val Ala Phe Cys Gly Asn Asn
      100          105          110
Val Leu Asn His Phe Phe Cys Asp Val Ser Pro Ile Leu Lys Leu Ala
      115          120          125
Cys Met Asn Leu Ser Met Ala Glu Thr Val Asp Phe Ala Leu Ala Ile
      130          135          140
Val Ile Leu Ile Phe Pro Leu Ser Ala Thr Val Leu Ser Tyr Gly Phe
      145          150          155          160
Ile Val Ser Thr Val Leu Gln Ile Pro Ser Ala Thr Gly Gln Arg Lys
      165          170          175
Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Val Ile Phe Tyr
      180          185          190
Thr Ala Val Ile Phe Met Tyr Val Arg Pro Arg Ala Ile Ala Ser Phe
      195          200          205
Asn Ser Asn Lys Leu Ile Ser Ala Ile Tyr Ala Val Phe Thr
      210          215          220

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&lt;210&gt; 2715

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Unknown (K18 (MUSODORECC L14568 293758 B40745) Buck 93)

&lt;400&gt;2715

```

Arg Tyr Val Ala Ile Cys Lys Pro Leu Thr Tyr Lys Val Ile Met Ser
 1           5           10           15
Pro Lys Ile Cys Leu Leu Ile Phe Ser Ser Tyr Leu Met Gly Phe
      20           25           30
Ala Ser Ala Met Ala His Thr Gly Cys Met Ile Arg Leu Ser Phe Cys
      35           40           45
Asp Ser Asn Ile Ile Asn His Tyr Met Cys Asp Ile Phe Pro Leu Leu
      50           55           60
Pro Leu Ser Cys Ser Ser Thr Tyr Val Asn Glu Leu Met Ser Ser Val
      65           70           75           80
Val Val Gly Ser Ala Ile Ile Leu Cys Cys Leu Ile Ile Leu Ile Ser
      85           90           95
Tyr Ala Met Ile Leu Phe Asn Ile Ile His Met Ser Ser Gly Lys Gly
      100          105          110
Trp Ser Lys Ala Leu Gly Thr Cys Gly Ser His Ile Ile Thr Val Ser
      115          120          125
Leu Phe Tyr Gly Ser Gly Leu Leu Ala Tyr Val Lys Pro Ser Ser Ala
      130          135          140
Lys Thr Val Gly Gln Gly Lys Phe Phe Ser Val Phe Tyr Thr Leu Leu
      145          150          155          160
Val

```

&lt;210&gt; 2716

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Unknown (K4 (MUSODORECD L14569 293760 464303 OLF4 P34983) Ressler-KJ 93)

&lt;400&gt;2716

```

Tyr Phe Leu Ser Ser Leu Ser Phe Ile Asp Phe Cys Gln Ser Thr Val
 1           5           10           15
Val Ile Pro Lys Met Leu Val Ser Phe Leu Thr Glu Met Asn Ile Ile
      20           25           30
Ser Tyr Ser Glu Cys Met Ala Gln Leu Tyr Phe Phe Leu Thr Phe Gly
      35           40           45
Ile Ala Gly Cys Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
 50           55           60
Ala Ile Cys Asn Pro Leu Leu Tyr Asn Val Thr Met Ser Tyr Gln Ile
65           70           75           80
Tyr Ser Ser Leu Ile Ser Gly Val Tyr Ile Phe Ala Val Ile Cys Ser
      85           90           95
Ser Phe Asn Thr Gly Phe Met Leu Arg Thr Gln Phe Cys Asn Leu Asp
      100          105          110
Val Ile Asn His Tyr Phe Cys Asp Leu Leu Pro Leu Leu Asn Leu Ala
      115          120          125
Ser Ser Asn Thr Tyr Ile Asn Glu Ile Leu Ile Leu Phe Phe Ala Thr
      130          135          140
Leu Asn Ser Phe Val Pro Val Leu Thr Ile Ile Thr Ser Tyr Ile Phe
145          150          155          160
Ile Ile Val Thr Ile Leu Ser Ile His Ser Arg Glu Gly Lys Phe Lys
      165          170          175
Ala Phe Ser Thr Cys Ser Thr His Ile Ser Ala Val Ala Ile Phe Tyr
      180          185          190
Gly Ser Gly Ala Phe Thr Tyr Leu Gln Pro Ser Ser Leu Asn Ser Met
      195          200          205
Gly Gln Ala Lys Val Ser Ser Val Phe Tyr Thr Thr Val Val
      210          215          220

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&lt;210&gt; 2717

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (olf3 (MUSOR3X OR3 M84005 200154 P23275 A46247) Nef 92)

&lt;400&gt;2717

```

Met Glu Val Asp Ser Asn Ser Ser Ser Gly Thr Phe Ile Leu Met Gly
 1           5           10           15
Val Ser Asp His Pro His Leu Glu Ile Ile Phe Phe Ala Val Ile Leu
      20           25           30
Ala Ser Tyr Leu Leu Thr Leu Val Gly Asn Leu Thr Ile Ile Leu Leu
      35           40           45
Ser Arg Leu Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50           55           60
Asn Leu Ser Ser Leu Asp Leu Ala Phe Thr Thr Ser Ser Val Pro Gln
65           70           75           80
Met Leu Lys Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Tyr Gly Gly
      85           90           95
Cys Val Thr Gln Leu Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Cys
      100          105          110
Ile Leu Leu Val Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Arg
      115          120          125
Pro Leu His Tyr Met Thr Val Met Asn Pro Arg Leu Cys Trp Gly Leu
      130          135          140
Ala Ala Ile Ser Trp Leu Gly Gly Leu Gly Asn Ser Val Ile Gln Ser
145          150          155          160
Thr Phe Thr Leu Gln Leu Pro Phe Cys Gly His Arg Lys Val Asp Asn

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      165      170      175
Phe Leu Cys Glu Val Pro Ala Met Ile Lys Leu Ala Cys Gly Asp Thr
      180      185      190
Ser Leu Asn Glu Ala Val Leu Asn Gly Val Cys Thr Phe Phe Thr Val
      195      200      205
Val Pro Val Ser Val Ile Leu Val Ser Tyr Cys Phe Ile Ala Gln Ala
      210      215      220
Val Met Lys Ile Arg Ser Val Glu Gly Arg Arg Lys Ala Phe Asn Thr
225      230      235      240
Cys Val Ser His Leu Val Val Val Phe Leu Phe Tyr Gly Ser Ala Ile
      245      250      255
Tyr Gly Tyr Leu Leu Pro Ala Lys Ser Ser Asn Gln Ser Gln Gly Lys
      260      265      270
Phe Ile Ser Leu Phe Tyr Ser Val Val Thr Pro Met Val Asn Pro Leu
      275      280      285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Gly Arg Leu
      290      295      300
Leu Gly Lys Gly Arg Gly Ala Ser
305      310

```

&lt;210&gt; 2718

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (MMOR23 (X92969))

&lt;400&gt;2718

```

Met Gln Arg Asn Asn Phe Thr Glu Val Ile Glu Phe Val Phe Leu Gly
 1      5      10      15
Phe Ser Ser Phe Gly Lys His Gln Ile Thr Leu Phe Val Val Phe Leu
 20      25      30
Thr Ile Tyr Ile Leu Thr Leu Ala Gly Asn Ile Ile Ile Val Thr Ile
 35      40      45
Thr His Ile Asp His His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50      55      60
Met Leu Ala Ser Ser Glu Thr Val Tyr Thr Leu Val Ile Val Pro Arg
 65      70      75      80
Met Leu Ser Ser Leu Ile Phe Tyr Asn Leu Pro Ile Ser Leu Ala Gly
 85      90      95
Cys Ala Thr Gln Met Phe Phe Phe Val Thr Leu Ala Thr Asn Asn Cys
100      105      110
Phe Leu Leu Thr Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys Asn
115      120      125
Pro Leu Arg Tyr Thr Ile Ile Met Ser Lys Gly Met Cys Ala Leu Leu
130      135      140
Val Cys Gly Ser Leu Gly Thr Gly Leu Val Met Ala Val Leu His Val
145      150      155      160
Pro Ala Met Phe His Leu Pro Phe Cys Gly Thr Val Val Glu His Phe
165      170      175
Phe Cys Asp Ile Tyr Pro Val Met Lys Leu Ser Cys Val Asp Thr Thr
180      185      190
Val Asn Glu Ile Ile Asn Tyr Gly Val Ser Ser Phe Val Ile Leu Val
195      200      205
Pro Ile Gly Leu Ile Phe Ile Ser Tyr Val Leu Ile Val Ser Ser Ile
210      215      220
Leu Lys Ile Val Ser Thr Glu Gly Gln Lys Lys Ala Phe Ala Thr Cys
225      230      235      240
Ala Ser His Leu Thr Val Val Ile Val His Tyr Gly Cys Ala Ser Ile
245      250      255
Ala Tyr Leu Lys Pro Lys Ser Glu Ser Ser Val Glu Lys Asp Leu Leu
260      265      270
Leu Ser Val Thr Tyr Thr Ile Ile Thr Pro Leu Leu Asn Pro Val Val

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275                      280                      285  
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Cys Arg Ala Val  
       290                      295                      300  
 Gly Arg Asn Thr Ser  
 305

<210> 2719  
 <211> 332  
 <212> PRT  
 <213> Unknown (GGCOR2GEN)

<400>2719  
 Met Leu Val Leu Cys Phe Ser Ala Ser Leu Leu Ser Asn Cys Asn Cys  
   1                          5                          10                          15  
 Val Val Met Met Ala Lys Gly Asn His Ser Ser Ile Thr Glu Phe Val  
                           20                          25                          30  
 Leu Leu Gly Phe Ser Glu Lys Arg Ala Ile Gln Ala Val Leu Phe Met  
                           35                          40                          45  
 Gly Phe Leu Leu Ile Tyr Leu Ile Thr Leu Leu Gly Asn Val Gly Met  
                           50                          55                          60  
 Ile Thr Leu Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe  
   65                          70                          75                          80  
 Phe Leu Ser Ser Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Thr Ile  
                           85                          90                          95  
 Thr Pro Arg Val Leu Ser Asp Leu Pro Ala Ser Gln Lys Val Ile Ser  
                           100                          105                          110  
 His Ser Ala Cys Leu Ala Gln Phe Tyr Phe Tyr Ala Val Phe Ala Thr  
                           115                          120                          125  
 Thr Glu Cys Tyr Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala  
                           130                          135                          140  
 Ile Cys Ser Pro Leu Leu Tyr Val Phe Ser Met Ser Ser Arg Val Cys  
   145                          150                          155                          160  
 Val Leu Leu Val Ala Gly Ser Tyr Leu Val Gly Val Val Asn Ala Thr  
                           165                          170                          175  
 Ile His Thr Gly Leu Ala Leu Gln Leu Ser Phe Cys Gly Pro Asn Ile  
                           180                          185                          190  
 Ile Asn His Phe Tyr Cys Asp Gly Pro Pro Leu Tyr Ala Ile Ser Cys  
                           195                          200                          205  
 Thr Asp Pro Thr Thr Asn Glu Ile Ala Ile Phe Leu Val Val Gly Phe  
                           210                          215                          220  
 Asn Met Leu Ile Thr Ser Val Thr Ile Phe Ile Ser Tyr Thr Tyr Ile  
   225                          230                          235                          240  
 Leu Phe Ala Val Leu Arg Met His Thr Ala Ala Gly Lys Arg Lys Thr  
                           245                          250                          255  
 Phe Ser Thr Cys Ala Ser His Leu Ala Thr Val Thr Leu Phe Tyr Ala  
                           260                          265                          270  
 Ser Ala Gly Ser Met Tyr Ser Arg Pro Ser Ser Arg His Ser Gln Asp  
                           275                          280                          285  
 Leu Asp Lys Val Ala Ser Val Phe Tyr Thr Met Val Thr Pro Met Leu  
                           290                          295                          300  
 Asn Pro Leu Ile Tyr Ser Leu Arg Asn Gln Glu Val Lys Asp Val Leu  
   305                          310                          315                          320  
 Gly Lys Val Met Gly Arg Lys Ser Val Ser Asp Lys  
                           325                          330

<210> 2720  
 <211> 312  
 <212> PRT  
 <213> Unknown (GGCOR3GEN)

<400>2720

```

Met Ala Leu Gly Asn Cys Thr Thr Pro Thr Thr Phe Ile Leu Ser Gly
 1          5          10          15
Leu Thr Asp Asn Pro Arg Leu Gln Met Pro Leu Phe Met Val Phe Leu
          20          25          30
Val Ile Tyr Thr Thr Thr Leu Leu Thr Asn Leu Gly Leu Ile Ala Leu
          35          40          45
Ile Ser Val Asp Leu His Leu Gln Thr Pro Met Tyr Ile Phe Leu Gln
          50          55          60
Asn Leu Ser Phe Thr Asp Ala Ala Tyr Ser Thr Val Ile Thr Pro Lys
65          70          75          80
Met Leu Ala Thr Phe Leu Glu Glu Arg Lys Thr Ile Ser Tyr Val Gly
          85          90          95
Cys Ile Leu Gln Tyr Phe Ser Phe Val Leu Leu Thr Thr Ser Glu Cys
          100          105          110
Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
          115          120          125
Pro Leu Leu Tyr Pro Ser Ile Met Thr Lys Ala Val Cys Trp Arg Leu
          130          135          140
Val Lys Gly Leu Tyr Phe Leu Ala Phe Leu Asn Ser Leu Val His Thr
145          150          155          160
Ser Gly Leu Leu Lys Leu Ser Phe Cys Ser Ser Asn Val Val Asn His
          165          170          175
Phe Phe Cys Asp Asn Ser Pro Leu Phe Gln Ile Ser Ser Ser Ser Thr
          180          185          190
Thr Leu Asn Glu Leu Leu Val Ile Ile Phe Gly Ser Leu Phe Val Met
          195          200          205
Ser Ser Ile Ile Thr Ile Leu Ile Ser Tyr Val Phe Ile Ile Leu Thr
          210          215          220
Val Val Arg Ile Arg Ser Lys Asp Gly Lys Tyr Lys Ala Phe Ser Thr
225          230          235          240
Cys Thr Ser His Leu Met Ala Val Ser Leu Phe His Gly Thr Val Ile
          245          250          255
Phe Met Tyr Leu Arg Ser Val Lys Leu Phe Ser Leu Asp Thr Asp Lys
          260          265          270
Ile Ala Ser Leu Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
          275          280          285
Ile Tyr Ser Trp Arg Asn Lys Glu Val Lys Asp Ala Leu Arg Arg Leu
          290          295          300
Thr Ala Thr Ser Ile Trp Leu His
305          310

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&lt;210&gt; 2721

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (GGCOR4GEN)

&lt;400&gt;2721

```

Met Ala Glu Gly Asn His Thr Leu Ala Ser Glu Phe Ile Leu Val Gly
 1          5          10          15
Leu Ser Asp His Pro Lys Met Lys Ala Ala Leu Phe Val Val Phe Leu
          20          25          30
Leu Ile Tyr Val Ile Thr Phe Gln Gly Asn Leu Gly Ile Ile Ile Leu
          35          40          45
Ile Gln Gly Asp Pro Arg Leu His Thr Ser Met Tyr Phe Phe Leu Ser
          50          55          60
Ser Leu Ser Val Val Asp Ile Cys Phe Ser Ser Val Ile Ala Pro Arg
65          70          75          80
Thr Leu Val Asn Phe Leu Ser Glu Arg Arg Thr Ile Ser Phe Thr Gly
          85          90          95
Cys Thr Gly Gln Thr Phe Phe Tyr Ile Val Phe Val Thr Thr Glu Cys
          100          105          110

```

Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Ser Thr Ile Met Thr Arg Arg Gln Cys Met Gln Leu  
 130 135 140  
 Val Val Gly Ser Tyr Ile Gly Gly Ile Leu Asn Ala Ile Ile Gln Thr  
 145 150 155 160  
 Thr Phe Ile Ile Arg Leu Pro Phe Cys Gly Ser Asn Ile Ile Asn His  
 165 170 175  
 Phe Phe Cys Asp Val Pro Pro Leu Leu Ala Leu Ser Leu Ala Ser Thr  
 180 185 190  
 Tyr Ile Ser Glu Met Ile Leu Phe Ser Leu Ala Gly Ile Ile Glu Leu  
 195 200 205  
 Ser Thr Val Thr Ser Ile Leu Val Ser Tyr Ile Phe Ile Ser Cys Ala  
 210 215 220  
 Ile Leu Arg Ile Arg Ser Ala Glu Gly Arg Gln Lys Ala Leu Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Thr Ala Val Thr Leu Leu Tyr Gly Thr Thr Ile  
 245 250 255  
 Phe Thr Tyr Leu Arg Pro Ser Ser Ser Tyr Ser Leu Asn Thr Asp Lys  
 260 265 270  
 Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Gln Glu Val Lys Gly Ala Leu Ser Arg Val  
 290 295 300  
 Val Glu Arg Ile Thr Val Arg Val  
 305 310

&lt;210&gt; 2722

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (GGCOR1)

&lt;400&gt;2722

Met Ala Ser Gly Asn Cys Thr Thr Pro Thr Thr Phe Ile Leu Ser Gly  
 1 5 10 15  
 Leu Thr Asp Asn Pro Gly Leu Gln Met Pro Leu Phe Met Val Phe Leu  
 20 25 30  
 Ala Ile Tyr Thr Ile Thr Leu Leu Thr Asn Leu Gly Leu Ile Ala Leu  
 35 40 45  
 Ile Ser Val Asp Leu His Leu Gln Thr Pro Met Tyr Ile Phe Leu Gln  
 50 55 60  
 Asn Leu Ser Phe Thr Asp Ala Ala Tyr Ser Thr Val Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Ala Thr Phe Leu Glu Glu Arg Lys Thr Ile Ser Tyr Val Gly  
 85 90 95  
 Cys Ile Leu Gln Tyr Phe Ser Phe Val Leu Leu Thr Val Thr Glu Ser  
 100 105 110  
 Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu Leu Tyr Pro Ser Ile Met Thr Lys Ala Val Cys Trp Arg Leu  
 130 135 140  
 Val Glu Ser Leu Tyr Phe Leu Ala Phe Leu Asn Ser Leu Val His Thr  
 145 150 155 160  
 Ser Gly Leu Leu Lys Leu Ser Phe Cys Tyr Ser Asn Val Val Asn His  
 165 170 175  
 Phe Phe Cys Asp Ile Ser Pro Leu Phe Gln Ile Ser Ser Ser Ser Ile  
 180 185 190  
 Ala Ile Ser Glu Leu Leu Val Ile Ile Ser Gly Ser Leu Phe Val Met  
 195 200 205  
 Ser Ser Ile Ile Ile Ile Leu Ile Ser Tyr Val Phe Ile Ile Leu Thr  
 210 215 220

Val Val Met Ile Arg Ser Lys Asp Gly Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Thr Ser His Leu Met Ala Val Ser Leu Phe His Gly Thr Val Ile  
 245 250 255  
 Phe Met Tyr Leu Arg Pro Val Lys Leu Phe Ser Leu Asp Thr Asp Lys  
 260 265 270  
 Ile Ala Ser Leu Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Trp Arg Asn Lys Glu Val Lys Asp Ala Leu Arg Arg Leu  
 290 295 300  
 Thr Ala Thr Thr Phe Gly Phe Ile Asp Ser Lys Ala Val Gln  
 305 310 315

&lt;210&gt; 2723

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (GGCOR2)

&lt;400&gt;2723

Met Ala Ser Gly Asn Cys Thr Thr Pro Thr Thr Phe Ile Leu Ser Gly  
 1 5 10 15  
 Leu Thr Asp Asn Pro Arg Leu Gln Met Pro Leu Phe Met Val Phe Leu  
 20 25 30  
 Val Ile Tyr Thr Thr Thr Leu Leu Thr Asn Leu Gly Leu Ile Ala Leu  
 35 40 45  
 Ile Gly Met Asp Leu His Leu Gln Thr Pro Met Tyr Ile Phe Leu Gln  
 50 55 60  
 Asn Leu Ser Phe Thr Asp Ala Ala Tyr Ser Thr Val Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Ala Thr Phe Leu Glu Glu Arg Arg Thr Ile Ser Tyr Val Gly  
 85 90 95  
 Cys Ile Leu Gln Tyr Phe Ser Phe Val Leu Leu Thr Thr Ser Glu Trp  
 100 105 110  
 Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu Leu Tyr Pro Ser Ile Met Thr Lys Ala Val Cys Trp Arg Leu  
 130 135 140  
 Val Lys Gly Leu Tyr Ser Leu Ala Phe Leu Asn Ser Leu Val His Thr  
 145 150 155 160  
 Ser Gly Leu Leu Lys Leu Ser Phe Cys Ser Ser Asn Val Val Asn His  
 165 170 175  
 Phe Phe Cys Asp Asn Arg Pro Leu Phe Gln Ile Ser Ser Ser Ser Thr  
 180 185 190  
 Thr Leu Asn Glu Leu Leu Val Ile Ile Ser Gly Ser Leu Phe Val Met  
 195 200 205  
 Ser Ser Ile Ile Thr Ile Leu Ile Ser Tyr Val Phe Ile Ile Leu Thr  
 210 215 220  
 Val Val Met Ile Arg Ser Lys Asp Gly Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Thr Ser His Leu Met Ala Val Ser Leu Phe His Gly Thr Val Ile  
 245 250 255  
 Phe Met Tyr Leu Arg Ser Val Lys Leu Phe Ser Leu Asp Thr Asp Lys  
 260 265 270  
 Ile Ala Ser Leu Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Trp Arg Asn Lys Glu Val Lys Asp Ala Leu Arg Arg Leu  
 290 295 300  
 Thr Ala Thr Ser Val Trp Leu His  
 305 310

&lt;210&gt; 2724



&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (GGCOR3)

&lt;400&gt;2724

```

Met Ala Ser Gly Asn Cys Thr Thr Pro Thr Thr Phe Ile Leu Ser Gly
1      5      10      15
Leu Thr Asp Asn Pro Gly Leu Gln Met Pro Leu Phe Met Val Phe Leu
20      25      30
Ala Ile Tyr Thr Ile Thr Leu Leu Thr Asn Leu Gly Leu Ile Arg Leu
35      40      45
Ile Ser Val Asp Leu His Leu Gln Thr Pro Met Tyr Ile Phe Leu Gln
50      55      60
Asn Leu Ser Phe Thr Asp Ala Ala Tyr Ser Thr Val Ile Thr Pro Lys
65      70      75      80
Met Leu Ala Thr Phe Leu Glu Glu Arg Lys Thr Ile Ser Tyr Val Gly
85      90      95
Cys Ile Leu Gln Tyr Phe Ser Phe Val Leu Leu Thr Thr Ser Glu Cys
100     105     110
Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
115     120     125
Pro Leu Leu Tyr Pro Ala Ile Met Thr Lys Ala Val Cys Trp Arg Leu
130     135     140
Val Glu Ser Leu Tyr Phe Leu Ala Phe Leu Asn Ser Leu Val His Thr
145     150     155     160
Cys Gly Leu Leu Lys Leu Ser Phe Cys Tyr Ser Asn Val Val Asn His
165     170     175
Phe Phe Cys Asp Ile Ser Pro Leu Phe Gln Ile Ser Ser Ser Ser Ile
180     185     190
Ala Ile Ser Glu Leu Leu Val Ile Ile Ser Gly Ser Leu Phe Val Met
195     200     205
Ser Ser Ile Ile Ile Ile Leu Ile Ser Tyr Val Phe Ile Ile Leu Thr
210     215     220
Val Val Met Ile Arg Ser Lys Asp Gly Lys Tyr Lys Ala Phe Ser Thr
225     230     235     240
Cys Thr Ser His Leu Met Ala Val Ser Leu Phe His Gly Thr Val Ile
245     250     255
Phe Met Tyr Leu Arg Pro Val Lys Leu Phe Ser Leu Asp Thr Asp Lys
260     265     270
Ile Ala Ser Leu Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
275     280     285
Ile Tyr Ser Trp Arg Asn Lys Glu Val Lys Asp Ala Leu Arg Arg Leu
290     295     300
Thr Ala Thr Thr Phe Gly Phe Ile Asp Ser Lys Ala Val Gln
305     310     315

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&lt;210&gt; 2725

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (GGCOR4)

&lt;400&gt;2725

```

Met Ala Ser Gly Asn Cys Thr Thr Pro Thr Thr Phe Ile Leu Ser Gly
1      5      10      15
Leu Thr Asp Asn Pro Gly Leu Gln Met Pro Leu Phe Met Val Phe Leu
20      25      30
Ala Ile Tyr Thr Ile Thr Leu Leu Thr Asn Leu Gly Leu Ile Ala Leu
35      40      45
Ile Ser Val Asp Leu His Leu Gln Thr Pro Met Tyr Ile Phe Leu Gln
50      55      60
Asn Leu Ser Phe Thr Asp Ala Ala Tyr Ser Thr Val Ile Thr Pro Lys

```

65					70					75				80
Met	Leu	Ala	Thr	Phe	Leu	Glu	Glu	Arg	Lys	Thr	Ile	Ser	Tyr	Ile
				85					90					95
Cys	Ile	Leu	Gln	Tyr	Phe	Ser	Phe	Val	Leu	Leu	Thr	Val	Thr	Glu
			100					105					110	
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125		Lys
Pro	Leu	Leu	Tyr	Pro	Ser	Ile	Met	Thr	Lys	Ala	Val	Cys	Trp	Arg
	130					135					140			Leu
Val	Lys	Gly	Leu	Tyr	Ser	Leu	Ala	Phe	Leu	Asn	Ser	Leu	Val	His
145					150					155				160
Ser	Gly	Leu	Leu	Lys	Leu	Ser	Phe	Cys	Ser	Ser	Asn	Val	Val	Asn
				165				170					175	His
Phe	Phe	Cys	Asp	Asn	Ser	Pro	Leu	Phe	Gln	Ile	Ser	Ser	Ser	Ser
		180						185					190	Thr
Thr	Leu	Asn	Glu	Leu	Leu	Val	Phe	Ile	Phe	Gly	Ser	Leu	Phe	Ala
	195					200						205		Met
Ser	Ser	Ile	Ile	Thr	Ile	Leu	Ile	Ser	Tyr	Val	Phe	Ile	Ile	Leu
	210				215						220			Thr
Val	Val	Arg	Ile	Arg	Ser	Lys	Asp	Gly	Lys	Tyr	Lys	Ala	Phe	Ser
225				230					235					240
Cys	Thr	Ser	His	Leu	Met	Ala	Val	Ser	Leu	Phe	His	Gly	Thr	Val
			245						250				255	Ile
Phe	Met	Tyr	Leu	Arg	Pro	Val	Lys	Leu	Phe	Ser	Leu	Asp	Thr	Asp
		260					265					270		Lys
Ile	Ala	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro
	275					280					285			Leu
Ile	Tyr	Ser	Trp	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Leu	Arg	Arg
	290				295						300			Val
Ile	Ala	Thr	Asn	Val	Trp	Ile	His							
305				310										

&lt;210&gt; 2726

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (GGCOR5)

&lt;400&gt;2726

Met	Ala	Leu	Gly	Asn	Cys	Thr	Thr	Pro	Thr	Thr	Phe	Ile	Leu	Ser	Gly
1				5				10					15		
Leu	Thr	Asp	Asn	Pro	Arg	Leu	Gln	Met	Pro	Leu	Phe	Met	Val	Phe	Leu
		20					25					30			
Ala	Ile	Tyr	Thr	Ile	Thr	Leu	Leu	Ala	Asn	Leu	Gly	Leu	Ile	Ala	Leu
	35					40					45				
Ile	Ser	Val	Asp	Phe	His	Leu	Gln	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gln
	50				55					60					
Asn	Leu	Ser	Phe	Thr	Asp	Ala	Ala	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Lys
65				70				75						80	
Met	Leu	Ala	Thr	Phe	Leu	Glu	Glu	Arg	Arg	Thr	Ile	Ser	Tyr	Val	Gly
			85					90					95		
Cys	Ile	Leu	Gln	Tyr	Phe	Ser	Phe	Val	Leu	Leu	Thr	Ser	Ser	Glu	Cys
		100					105					110			
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115					120					125				
Pro	Leu	Leu	Tyr	Pro	Ala	Ile	Met	Thr	Lys	Ala	Val	Cys	Trp	Arg	Leu
	130				135						140				
Val	Glu	Gly	Leu	Tyr	Ser	Leu	Ala	Phe	Leu	Asn	Ser	Leu	Val	His	Thr
145				150					155					160	
Ser	Gly	Leu	Leu	Lys	Leu	Ser	Phe	Cys	Ser	Ser	Asn	Val	Val	Asn	His
			165					170					175		
Phe	Phe	Cys	Asp	Asn	Ser	Pro	Leu	Phe	Gln	Ile	Ser	Ser	Ser	Ser	Thr

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<210> 2727
<211> 312
<212> PRT
<213> Unknown (GGCOR6)
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Met 1	Ala	Ser	Gly	Asn 5	Cys	Thr	Thr	Pro	Thr 10	Thr	Phe	Ile	Leu	Ser 15	Gly
Leu	Thr	Asp	Asn 20	Pro	Gly	Leu	Gln	Met 25	Pro	Leu	Phe	Met	Val 30	Phe	Leu
Ala	Ile	Tyr 35	Thr	Ile	Thr	Leu	Leu 40	Thr	Asn	Leu	Gly	Leu 45	Ile	Ala	Leu
Ile	Ser 50	Ile	Asp	Leu	Gln	Leu 55	Gln	Thr	Pro	Met	Tyr 60	Ile	Phe	Leu	Gln
Asn 65	Leu	Ser	Phe	Thr	Asp 70	Ala	Val	Tyr	Ser	Thr 75	Val	Ile	Thr	Pro	Lys 80
Met	Leu	Ala	Thr	Phe 85	Leu	Glu	Glu	Thr	Lys 90	Thr	Ile	Ser	Tyr	Val 95	Gly
Cys	Ile	Leu	Gln 100	Tyr	Phe	Ser	Phe	Val 105	Leu	Leu	Thr	Val 110	Arg	Glu	Cys
Leu	Leu 115	Leu	Ala	Val	Met	Ala	Tyr 120	Asp	Arg	Tyr	Ala 125	Ala	Ile	Cys	Lys
Pro	Leu 130	Leu	Tyr	Pro	Ala	Ile 135	Met	Thr	Lys	Ala 140	Val	Cys	Trp	Arg	Leu
Val 145	Lys	Gly	Leu	Tyr 150	Ser	Leu	Ala	Phe	Leu 155	Asn	Phe	Leu	Val	His	Thr 160
Ser	Gly	Leu	Leu 165	Lys	Leu	Ser	Phe	Cys	Ser 170	Ser	Asn	Val	Val	Asn 175	His
Phe	Phe	Cys	Asp 180	Asn	Ser	Pro	Leu	Phe 185	Gln	Ile	Ser	Ser 190	Ser	Ser	Thr
Ala	Leu 195	Asn	Glu	Leu	Leu	Val 200	Phe	Ile	Phe	Gly	Ser 205	Leu	Phe	Val	Met
Ser	Ser 210	Ile	Ile	Thr	Ile 215	Leu	Ile	Ser	Tyr	Val 220	Phe	Ile	Ile	Leu	Thr
Val 225	Val	Arg	Ile	Arg 230	Ser	Lys	Glu	Arg	Lys	Tyr 235	Lys	Ala	Phe	Ser	Thr 240
Cys	Thr	Ser	His 245	Leu	Met	Ala	Val	Ser	Leu 250	Phe	His	Gly	Thr 255	Ile	Val
Phe	Met	Tyr	Phe 260	Gln	Pro	Ala	Asn	Asn 265	Phe	Ser	Leu	Asp 270	Lys	Asp	Lys
Ile	Met 275	Ser	Leu	Phe	Tyr	Thr	Val 280	Val	Ile	Pro	Met 285	Leu	Asn	Pro	Leu
Ile	Tyr	Ser	Trp	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Leu	His	Arg	Ala

290                      295                      300  
 Ile Ala Thr Ala Val Leu Phe His  
 305                      310

<210> 2728  
 <211> 162  
 <212> PRT  
 <213> Unknown (XLORXR1)

<400>2728  
 Val Ala Val Cys His Pro Leu Leu Tyr Val Phe His Met Ser Gln Lys  
 1                      5                      10                      15  
 His Cys Thr Phe Val Ser Ala Ala Trp Ile Ile Gly Phe Leu Asp  
 20                      25                      30  
 Pro Thr Ser Tyr Val Val Leu Ile Ser Lys Phe Ser Phe Cys Thr Ser  
 35                      40                      45  
 Asn Ile Ile Asp His Phe Phe Cys Asp Leu Ala Pro Leu Leu Lys Leu  
 50                      55                      60  
 Ser Cys Ser Asp Thr Phe Gln Ile Glu Val Leu Asn Tyr Val Glu Ser  
 65                      70                      75                      80  
 Ala Leu Val Thr Leu Asn Ser Phe Val Leu Thr Val Ile Ser Tyr Ile  
 85                      90                      95  
 Phe Thr Ile Ser Ala Ile Leu Asn Ile Lys Ser Ala Glu Gly Arg His  
 100                      105                      110  
 Lys Ala Phe Ser Thr Cys Thr Ser His Leu Thr Cys Val Ile Ile Phe  
 115                      120                      125  
 Tyr Ser Thr Ile Ile Ser Leu Tyr Ile Arg Pro Ile Ser Thr Tyr Ala  
 130                      135                      140  
 Pro Lys Gln Asp Gln Phe Phe Ala Leu Leu Tyr Ile Val Leu Ile Pro  
 145                      150                      155                      160  
 Leu Leu

<210> 2729  
 <211> 161  
 <212> PRT  
 <213> Unknown (XLORXR2)

<400>2729  
 Val Ala Ile Cys Tyr Pro Leu His Tyr Ala Leu Arg Met Ser Leu Lys  
 1                      5                      10                      15  
 His Cys Ala Lys Ile Ile Val Gly Val Trp Val Ala Gly Phe Leu Ala  
 20                      25                      30  
 Pro Val Ile His Thr Val Leu Met Thr Asn Leu Ser Phe Cys Ser Ser  
 35                      40                      45  
 Asn His Ile Asn His Phe Leu Cys Asp Leu Thr Pro Val Leu Lys Ile  
 50                      55                      60  
 Ser Cys Ser Asp Thr Ser Leu Ile Glu Met Ile Thr Tyr Ile Asp Gly  
 65                      70                      75                      80  
 Val Ile Val Ala Phe Ser Thr Phe Thr Ile Thr Ser Val Ser Tyr Val  
 85                      90                      95  
 Phe Ile Leu Phe Lys Ile Leu Lys Ile His Ser Ser Gln Gly Lys Lys  
 100                      105                      110  
 Lys Ala Leu Ser Thr Cys Thr Ser His Leu Thr Cys Val Ile Ile Phe  
 115                      120                      125  
 Tyr Gly Ser Ile Ile Cys Leu Tyr Met Arg Pro Thr Lys Ser Ile Ser  
 130                      135                      140  
 Pro Asn Gln Asp Val Phe Ala Leu Leu Tyr Ala Val Leu Val Pro Met  
 145                      150                      155                      160  
 Leu

<210> 2730  
 <211> 155  
 <212> PRT  
 <213> Unknown (XLORXR3)

<400>2730

Val	Ala	Ile	Cys	Met	Pro	Met	Leu	Tyr	Ser	Leu	Ile	Met	Lys	Lys	Ser
1				5					10					15	
Ile	Cys	Ala	Leu	Ala	Ser	Val	Ser	Trp	Phe	Met	Gly	Ala	Met	Asp	
		20					25				30				
Ser	Phe	Met	Phe	Trp	Tyr	Leu	Val	Ser	Asn	Ser	Ser	Phe	Cys	Asp	His
	35					40					45				
Gln	Glu	Ile	Asn	His	Phe	Phe	Cys	Asp	Leu	Lys	Thr	Leu	Met	Lys	Leu
	50				55						60				
Ser	Cys	Arg	Gly	Ala	Glu	Thr	Ile	Lys	Ile	Val	Ile	Ile	Val	Ala	Ser
65					70					75				80	
Ala	Val	Leu	Gly	Phe	Leu	Pro	Phe	Cys	Leu	Ile	Leu	Ile	Ser	Tyr	Ala
			85					90						95	
Asn	Ile	Ile	Ser	Ser	Val	Ser	Lys	Ile	Arg	Thr	Ala	Ala	Gly	Lys	Leu
			100				105						110		
Lys	Ile	Phe	Ser	Ser	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Phe
	115					120					125				
Cys	Gly	Thr	Cys	Leu	Ser	Leu	Tyr	Met	Lys	Pro	Asp	Ser	Gly	Asn	Ser
	130					135					140				
Gln	Glu	Asn	Glu	Glu	Leu	Leu	Ser	Leu	Leu	Tyr					
145					150					155					

<210> 2731  
 <211> 162  
 <212> PRT  
 <213> Unknown (XLORXR5)

<400>2731

Val	Ala	Ile	Cys	Gln	Pro	Leu	Leu	Tyr	Ala	Val	Ile	Met	Asn	Arg	Lys
1				5					10					15	
Val	Val	Ile	Ile	Phe	Val	Val	Gly	Val	Tyr	Leu	Ser	Gly	Ile	Phe	Thr
		20					25					30			
Ala	Ser	Ile	His	Thr	Ala	Cys	Thr	Leu	Thr	Leu	Ser	Phe	Cys	Gly	Pro
	35					40						45			
Asn	Thr	Ile	Asn	His	Phe	Tyr	Cys	Asp	Ile	Pro	Pro	Leu	Met	Glu	Leu
	50				55						60				
Ser	Cys	Ser	Asp	Thr	Tyr	Ile	His	Lys	Thr	Val	Ile	Phe	Val	Val	Val
65					70					75				80	
Phe	Cys	Leu	Gly	Leu	Phe	Asn	Val	Ala	Val	Ile	Leu	Ala	Ser	Tyr	Ser
			85					90						95	
Tyr	Ile	Phe	Phe	Thr	Ile	Ile	His	Ile	Gln	Ser	Ser	Cys	Gly	Arg	His
			100				105						110		
Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Cys	Val	Ser	Leu	Phe
	115					120						125			
Tyr	Gly	Thr	Val	Phe	Phe	Met	Tyr	Leu	Arg	Pro	Ala	Ser	Lys	Tyr	Ser
	130					135					140				
Val	Ser	Gln	Asp	Lys	Val	Val	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro
145					150					155					160
Met	Met														

<210> 2732  
 <211> 163  
 <212> PRT  
 <213> Unknown (XLORXR9)

&lt;400&gt;2732

```

Leu Ala Ile Cys Phe Pro Leu Asn Tyr Cys Leu Ile Met Ser Gln Ser
1          5          10          15
Leu Arg Cys Arg Leu Val Val Val Cys Trp Ala Cys Gly Leu Val Asn
20          25          30
Ser Leu Val Gln Ala Phe Ser Ile Ser His Leu Asp Phe Cys Gly Pro
35          40          45
Asn Val Val Asp His Phe Phe Cys Asp Val Thr Pro Leu Phe Lys Leu
50          55          60
Ser Cys Ser Asp Thr Arg Val Ser Glu Thr Ile Phe Leu Leu Val Val
65          70          75          80
Ala Val Ala Gly Met Gly Pro Leu Thr Phe Ile Leu Val Thr Tyr Gly
85          90          95
His Ile Ile Leu Ala Ile Thr Arg Ile Thr Ser Ser His Gly Arg Tyr
100          105          110
Lys Thr Phe Ser Thr Cys Ala Ser His Phe Thr Val Val Ala Leu Tyr
115          120          125
Tyr Gly Ser Gly Ile Phe Ser Tyr Ile Trp Pro Thr Ser Thr Tyr Ala
130          135          140
Met Asn Lys Asp Val Lys Val Val Ala Val Leu Tyr Thr Val Met Thr
145          150          155          160
Pro Met Leu

```

&lt;210&gt; 2733

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR13)

&lt;400&gt;2733

```

Val Ala Ile Ser Lys Pro Leu Arg Tyr Met Thr Ile Met Asn Trp Lys
1          5          10          15
Val Cys Ala Val Leu Gly Val Ala Met Trp Thr Ala Gly Thr Val His
20          25          30
Ser Ile Ser Phe Thr Ser Leu Thr Ile Lys Leu Pro Tyr Cys Gly Pro
35          40          45
Asp Glu Ile Asp Asn Phe Phe Cys Asp Val Pro Gln Val Ile Glu Leu
50          55          60
Ala Cys Thr Asp Thr Arg Ile Thr Glu Ile Leu Val Val Ser Asn Ser
65          70          75          80
Gly Met Ile Ser Met Val Cys Phe Val Ile Ile Val Val Ser Tyr Ala
85          90          95
Val Ile Leu Val Ser Leu Arg Gln Gln Ile Ser Asp Gly Lys Arg Lys
100          105          110
Ala Leu Ser Thr Cys Ala Ala His Leu Thr Val Val Thr Leu Phe Leu
115          120          125
Gly His Cys Ile Phe Ile Tyr Ser Arg Pro Ser Ile Ser Leu Pro Glu
130          135          140
Asp Lys Ile Val Ser Ala Phe Phe Thr Ala Val Thr Pro Leu Leu
145          150          155

```

&lt;210&gt; 2734

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR17)

&lt;400&gt;2734

```

Asn Ala Ile Cys Asn Pro Leu Leu Tyr Asn Thr Ile Met Asn Lys Arg
1          5          10          15
Thr Cys Val Ile Leu Ile Val Gly Ser Trp Leu Ile Ala Ser Ile Asn

```

```

      20      25      30
Ser Leu Ile His Thr Ile Leu Thr Phe Met Leu Pro Phe Cys Gly Ser
      35      40      45
Asn Ala Ile Asp Ser Phe Phe Cys Asp Met Pro Pro Leu Leu Lys Leu
      50      55      60
Ala Cys Thr Asp Thr Leu Val Asn Gln Ile Val Ile Phe Val Thr Gly
      65      70      75      80
Ser Cys Ile Ile Ala Gly Pro Phe Met Leu Thr Val Phe Ser Tyr Val
      85      90      95
Gln Ile Ile Ser Thr Ile Val Ser Ile Arg Ser Ser Ser Arg Lys Lys
      100      105      110
Lys Ala Phe Ser Thr Cys Thr Ser His Ile Thr Ala Val Val Ile Phe
      115      120      125
Tyr Val Pro Ser Ile Cys Ile Tyr Phe Arg Pro Lys Ser Asn Gln Ala
      130      135      140
Met Ile Gln Asp Lys Met Ala Thr Val Ile Cys Ala Val Ile Thr Pro
      145      150      155      160
Leu Leu

```

&lt;210&gt; 2735

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR42)

&lt;400&gt;2735

```

Cys Asn Leu Ser Ser Leu Asp Ile Ala Tyr Thr Ser Val Thr Ala Pro
1      5      10      15
Lys Leu Ile His Ile Phe Ala Val Asn Asn His Arg Ile Ser Phe Trp
      20      25      30
Gln Cys Ile Ala Gln Leu Tyr Phe Phe Ile Ala Phe Gly Ser Thr Glu
      35      40      45
Tyr Leu Leu Leu Thr Leu Met Ser Tyr Asp Arg Tyr Val Ala Val Cys
      50      55      60
Lys Pro Leu His Tyr Arg Val Val Met Ser Pro Met Leu Cys Arg Ala
      65      70      75      80
Gly Ala Ala Gly Thr Trp Ile Gly Gly Leu Ala Ser Ile Pro Thr
      85      90      95
Ala Thr Ala Ala Ala Asn Ile Tyr Tyr Cys Ser Asn Asn Ile Ile Ile
      100      105      110
Asn His Phe Phe Cys Asp Met Met Ala Leu Val Lys Leu Ala Cys Ser
      115      120      125
Asp Thr Thr Met Thr Arg Ala Val Ile Phe Val Glu Gly Met Leu Ile
      130      135      140
Leu Met Thr Cys Phe Leu Leu Thr Val Ile Ser Tyr Ile Cys Ile Leu
      145      150      155      160
Ser Thr Ile Val Arg Ile His Ser Ser Gly Gly Lys Phe Lys Ala Phe
      165      170      175
Ser Thr Cys Ala Ser His Leu Ser Val Val Ser Ile Phe Tyr Val Leu
      180      185      190
Ile Phe Tyr Leu Tyr Leu Lys Pro Lys Ser Glu Ile Ser Leu Ser Gln
      195      200      205
Gly Lys Leu Leu Thr Val Leu Tyr Val Tyr Phe Ile Pro Met Phe
      210      215      220

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&lt;210&gt; 2736

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR46)

&lt;400&gt;2736

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Leu Leu Phe Asp Thr Ile Thr Thr Pro Lys Ile Ile Ala Lys Tyr Trp
 1          5          10          15
Phe Gly Asp Gly Asn Ile Ser Phe Ser Gly Cys Leu Phe Gln Leu Phe
          20          25          30
Cys Val His Ser Leu Gly Ser Val Asp Ser Phe Ile Leu Met Leu Met
          35          40          45
Ala Ala Asp Arg Tyr Val Ala Ile Leu Gln Pro Leu Arg Tyr Phe Ala
          50          55          60
Ile Ile Thr Lys Lys Leu Thr Ala Ile Phe Cys Ser Cys Phe Trp Val
65          70          75          80
Leu Ser Val Val Ile Val Ser Val Met Thr Tyr Met Ile Leu Lys Leu
          85          90          95
Pro Phe Cys Gly Pro Asn Asn Ile Thr Gly Cys Phe Cys Ser Ser Ser
          100          105          110
Val Ile Phe Pro Leu Ala Cys Thr Asp Val Thr Tyr Val Arg Gln Val
          115          120          125
Ser Leu Ile Phe Ala Leu Ser Val Leu Leu Ile Pro Leu Ala Phe Ile
          130          135          140
Ile Leu Ser Tyr Ala Leu Ile Val Leu Thr Ile His Ser Met Leu His
145          150          155          160
Ser Asp Asn Trp Gln Lys Leu Phe Tyr Thr Cys Thr Thr His Leu Leu
          165          170          175
Val Ile Cys Leu Tyr Tyr Ile Pro Arg Val Phe Val Tyr Leu Ala Asn
          180          185          190
Tyr Val Arg Leu Leu Phe Asn Ala Asp Ile Asn Val Leu Ile Leu Tyr
          195          200          205
Met Tyr Thr Phe Leu Pro His Leu Ala
          210          215

```

&lt;210&gt; 2737

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR106)

&lt;400&gt;2737

```

Leu Leu Phe Asp Thr Ile Thr Thr Pro Lys Ile Ile Ala Lys Tyr Trp
 1          5          10          15
Phe Gly Asp Gly Asn Ile Ser Phe Ser Gly Cys Leu Phe Gln Leu Phe
          20          25          30
Cys Val His Ser Leu Gly Ser Val Asp Ser Phe Ile Leu Met Leu Met
          35          40          45
Ala Ala Asp Arg Tyr Ile Ala Ile Leu Gln Pro Leu Arg Tyr Phe Ala
          50          55          60
Ile Ile Thr Lys Lys Leu Thr Thr Ile Phe Cys Ser Cys Phe Trp Val
65          70          75          80
Leu Ser Val Val Ile Val Ser Val Met Thr Tyr Met Ile Leu Lys Leu
          85          90          95
Pro Phe Cys Gly Pro Asn Asn Ile Thr Gly Cys Phe Cys Ser Ser Ser
          100          105          110
Val Ile Phe Pro Leu Ala Cys Thr Asp Val Thr Tyr Val Arg Gln Val
          115          120          125
Ser Leu Ile Phe Ala Leu Ser Val Leu Leu Ile Pro Leu Ala Phe Ile
          130          135          140
Ile Leu Ser Tyr Ala Leu Ile Val Leu Thr Ile His Ser Met Leu His
145          150          155          160
Ser Asp Asn Trp Gln Lys Leu Phe Tyr Thr Cys Thr Thr His Leu Leu
          165          170          175
Val Ile Cys Leu Tyr Tyr Ile Pro Arg Val Phe Met Tyr Leu Ala Asn
          180          185          190
Tyr Val Arg Leu Leu Phe Asn Ala Asp Ile Asn Val Leu Ile Leu Tyr
          195          200          205

```



Met Tyr Thr Phe Leu Pro His Leu Ala  
210 215

<210> 2738  
<211> 217  
<212> PRT  
<213> Unknown (XLORXR116)

<400>2738

Leu	Leu	Phe	Asp	Thr	Ile	Thr	Leu	Pro	Lys	Ile	Ile	Ala	Lys	Tyr	Trp
1				5					10					15	
Phe	Gly	Ala	Arg	Ser	Ile	Ser	Phe	Tyr	Gly	Cys	Ile	Phe	Gln	Leu	Phe
			20					25					30		
Cys	Val	His	Ser	Leu	Gly	Ser	Leu	Asp	Ser	Phe	Ile	Ile	Met	Leu	Met
		35					40					45			
Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Arg	Tyr	His	Ser
	50					55					60				
Ile	Ile	Ser	Asn	Lys	Leu	Val	Thr	Leu	Leu	Cys	Tyr	Phe	Phe	Trp	Val
65					70					75					80
Leu	Ala	Ala	Leu	Ile	Gly	Ser	Ile	Val	Ala	Val	Ile	Ala	Gly	Gln	Leu
					85				90					95	
Pro	Tyr	Cys	Gly	Pro	Asn	Arg	Val	Arg	Asn	Cys	Phe	Cys	Val	Asn	Ser
			100					105					110		
Ala	Val	Thr	Val	Leu	Ala	Cys	Val	Asp	Val	Thr	Leu	Ala	Arg	Arg	Thr
		115					120					125			
Val	Phe	Thr	Leu	Ala	Met	Cys	Val	Leu	Leu	Leu	Pro	Leu	Ala	Phe	Ile
		130				135					140				
Ile	Leu	Ser	Tyr	Ile	Leu	Ile	Ile	Arg	Val	Ile	His	Ser	Ser	Thr	Asn
145					150					155					160
Asn	Glu	Asn	Ser	Trp	Lys	Ala	Phe	Tyr	Thr	Cys	Thr	Thr	His	Leu	Met
				165				170						175	
Val	Ile	Gly	Leu	Tyr	Tyr	Ile	Pro	Arg	Val	Phe	Val	Tyr	Ser	Thr	Ser
			180					185					190		
Gln	Ile	Pro	Leu	Ile	Leu	Asp	Val	Asp	Ile	Asn	Val	Leu	Leu	Leu	Cys
		195					200					205			
Leu	Tyr	Thr	Phe	Val	Pro	His	Leu	Ala							
	210						215								

<210> 2739  
<211> 217  
<212> PRT  
<213> Unknown (XLORXR117)

<400>2739

Leu	Leu	Phe	Asp	Thr	Ile	Thr	Thr	Pro	Lys	Ile	Ile	Ala	Lys	Tyr	Trp
1				5					10					15	
Phe	Gly	Asp	Gly	Asn	Ile	Ser	Phe	Ser	Gly	Cys	Leu	Phe	Gln	Leu	Phe
			20					25					30		
Cys	Val	His	Ser	Leu	Gly	Ser	Val	Asp	Ser	Phe	Ile	Leu	Met	Leu	Met
		35					40					45			
Ala	Ala	Asp	Arg	Tyr	Ile	Ala	Ile	Leu	Gln	Pro	Leu	Arg	Tyr	Phe	Ala
	50					55					60				
Ile	Ile	Thr	Lys	Lys	Leu	Thr	Thr	Ile	Phe	Cys	Ser	Cys	Phe	Trp	Val
65					70					75					80
Leu	Gly	Val	Val	Ile	Val	Ser	Val	Met	Thr	Tyr	Met	Ile	Leu	Lys	Leu
					85				90					95	
Pro	Phe	Cys	Gly	Pro	Asn	Asn	Ile	Thr	Gly	Cys	Phe	Cys	Ser	Ser	Ser
			100					105					110		
Val	Ile	Phe	Pro	Leu	Ala	Cys	Thr	Asp	Val	Thr	Tyr	Val	Arg	Gln	Val
		115					120					125			
Ser	Leu	Ile	Phe	Ala	Leu	Ser	Val	Leu	Leu	Ile	Pro	Leu	Ala	Phe	Ile

130	135	140
Ile Leu Ser Tyr Ala Leu	Ile Val Leu Thr	Ile His Ser Met Leu His
145	150	155
Ser Asp Asn Trp Gln Lys	Pro Phe Tyr Thr	Cys Thr Thr His Leu Leu
165	170	175
Val Ile Cys Leu Tyr Tyr	Ile Pro Arg Val	Phe Met Tyr Leu Ala Asn
180	185	190
Tyr Val Arg Leu Leu Phe	Asn Ala Asp Ile	Asn Val Leu Ile Leu Tyr
195	200	205
Met Tyr Thr Phe Leu Pro	His Leu Ala	
210	215	

&lt;210&gt; 2740

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR171)

&lt;400&gt;2740

Gln Gln Leu Ser Val Cys Asp	Leu Leu Gln Thr Ala Cys Thr Val Pro
1	5 10 15
Leu Leu Leu Trp Thr Ile Ile	Asn Asp Gly Thr Thr Ile Ser Val Gly
20	25 30
Gly Cys Ile Thr Gln Phe Tyr	Phe Phe Asn Ala Ser Glu Ser Val Glu
35	40 45
Cys Leu Leu Leu Thr Val Met	Ser Phe Asp Arg Tyr Leu Ala Ile Cys
50	55 60
Asn Pro Leu Arg Tyr Thr Ser	Leu Met Asn Pro Lys Leu Cys Val Lys
65	70 75 80
Leu Thr Leu Ile Pro Trp Leu	Leu Gly Phe Ser Ile Ile Leu Ile Thr
85	90 95
Ala Asn Ala Ile Ala Thr Leu	Gln Phe Cys Asn Gln Asn Thr Ile Asn
100	105 110
His Tyr Phe Cys Asp Tyr Phe	Pro Leu Leu Glu Leu Ser Cys Met Asp
115	120 125
Thr Phe Phe Val Gln Thr Glu	Ala Ile Leu Gln Ala Val Pro Val Val
130	135 140
Phe Ile Pro Ile Ile Leu Ile	Ile Ile Ser Tyr Val Phe Ile Ile His
145	150 155 160
Thr Leu Leu Lys Ile Val Ser	Thr Thr Gly Arg Gln Lys Ala Phe Ser
165	170 175
Thr Cys Ser Ser His Leu Ile	Val Val Phe Leu Phe Tyr Gly Ser Leu
180	185 190
Ile Gly Ile Tyr Val Val Pro	Ser Arg Lys Gln Ser Pro Thr Ile Ser
195	200 205
Lys Val Phe Ser Leu Leu Tyr	Thr Val Val Thr Pro Leu Leu
210	215 220

&lt;210&gt; 2741

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR181)

&lt;400&gt;2741

Gln Gln Leu Ser Leu Ser Asp	Leu Leu Gly Ser Thr Asn Ile Val Pro
1	5 10 15
Thr Leu Leu Glu Thr Ile Ile	Leu Gly Arg Ala Ser Ile Ser Leu Val
20	25 30
Asp Cys Ile Thr Gln Phe Asn	Val Phe Gly Gly Ser Glu Thr Phe Val
35	40 45
Gly Phe Leu Leu Ala Val Met	Ser Asn Asp Arg Tyr Val Ala Ile Cys
50	55 60

```

Ile Pro Leu Arg Tyr Thr Ser Ile Thr Ser Tyr Asn Ile Cys Asn Lys
65              70              75              80
Leu Ile Leu Val Ser Trp Leu Leu Gly Leu Gly Ala Ile Leu Ile Thr
85              90              95
Ala Asn Leu Ile Ala Thr Leu Tyr Phe Cys Asp Gln Asn Ile Ile Asn
100            105            110
His Phe Phe Cys Asp Phe Phe Pro Leu Leu Gln Leu Ser Cys Ser Asp
115            120            125
Thr Phe Ile Val Gln Leu Glu Val Ile Leu Leu Ser Ile Pro Val Ile
130            135            140
Ile Tyr Pro Phe Ile Leu Ile Ile Val Ser Tyr Ile Cys Ile Ala His
145            150            155            160
Ala Ile Leu Lys Ile Val Ser Asn Thr Gly Arg Gln Lys Ala Phe Ser
165            170            175
Thr Cys Ser Ser His Leu Ala Val Val Ser Ile Phe Tyr Gly Ala Leu
180            185            190
Thr Ala Val Tyr Val Ala Pro Pro Arg Lys Glu Ser Gln Thr Leu Ser
195            200            205
Lys Val Phe Ser Leu Leu Tyr Thr Val Met Ile Pro
210            215            220

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&lt;210&gt; 2742

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLOR185)

&lt;400&gt;2742

```

Ser Gln Leu Ser Thr Ser Asp Ile Val Ile Ser Thr Thr Val Cys Pro
1              5              10              15
Asn Leu Leu Tyr Ile Thr Trp Asn Glu Gly Ala Tyr Ile Ser Ile Thr
20            25            30
Gly Cys Ile Trp Gln Phe Asn Met Phe Ser Val Ser Ser Val Thr Glu
35            40            45
Cys Phe Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Cys
50            55            60
Lys Pro Leu His Tyr Ala Ser Ile Met Thr Trp Arg Ser Cys Ile Phe
65            70            75            80
Leu Val Met Ser Cys Trp Ser Leu Gly Phe Leu Leu Ser Met Ile Val
85            90            95
Thr Val Met Ile His Tyr Leu His Phe Cys Gly Pro Tyr Thr Ile Asp
100           105           110
His Leu Phe Cys Asp Tyr Thr Pro Leu Met Gln Leu Ser Cys Ser Asp
115           120           125
Thr Thr Ile Leu Lys Met Thr Val Phe Leu Ile Ala Thr Pro Gly Thr
130           135           140
Val Leu Gln Pro Phe Phe Ile Ile Ala Thr Tyr Ile Asn Ile Ile Leu
145           150           155           160
Asn Ile Leu Arg Ile Ser Ser Ser Ser Lys Arg Gln Lys Ala Phe Ser
165           170           175
Thr Cys Ser Ser His Leu Ser Val Val Cys Leu Tyr Tyr Gly Thr Leu
180           185           190
Ile Ala Thr Tyr Ala Thr Pro Thr Asp Gly Arg Leu Ser Thr Arg Asn
195           200           205
Lys Leu Leu Ser Leu Ile Tyr Thr Val Gly Thr Pro
210           215           220

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&lt;210&gt; 2743

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR206)

&lt;400&gt;2743

```

Gly Asn Leu Ser Phe Val Asp Ile Ser Phe Ile Ser Val Thr Val Pro
 1          5          10          15
Leu Met Val Ala His Leu Leu Thr Asp Lys Lys Ser Ile Ser Phe Thr
          20          25          30
Gly Cys Met Thr Gln Leu Phe Phe Ile Trp Ile Ala Val Leu Glu
          35          40          45
Cys Leu Ile Leu Thr Ile Met Ala Tyr Asp Arg Leu Val Ala Ile Thr
          50          55          60
Asn Pro Leu Arg Tyr Leu Ser Ile Leu Asp Arg Lys Thr Cys Trp Ser
65          70          75          80
Leu Ile Thr Phe Ser Trp Ile Leu Ser Phe Leu His Ser Leu Leu Tyr
          85          90          95
Ala Ser Thr Ile Ser Ser Leu Asp Tyr Cys Gly Leu Asn Lys Val Asn
          100          105          110
Glu His Phe Cys Asp Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Asn
          115          120          125
Pro Ala Ser Leu Glu Leu Leu Val Tyr Thr Glu Gly Ser Val Met Ala
          130          135          140
Met Ser Pro Phe Val Leu Ile Met Val Ser Tyr Leu Arg Ile Ile Lys
145          150          155          160
Thr Ile Leu Ser Ile His Ser Ser Ser Gly Arg Tyr Arg Ala Phe Ser
          165          170          175
Thr Cys Ser Ser His Leu Ile Ser Val Gly Leu Phe Phe Val Thr Ile
          180          185          190
Phe Val Ser Tyr Leu Gln Pro Ala Ser Ala Gly Ala Val Glu Thr Asn
          195          200          205
Arg Pro Ile Ala Leu Val Tyr Ser Ile Leu Thr Pro Leu Pro
          210          215          220

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&lt;210&gt; 2744

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Unknown (XLORXR214)

&lt;400&gt;2744

```

Ser Asn Met Ser Phe Leu Glu Ile Arg Tyr Ile Ser Val Thr Leu Pro
 1          5          10          15
Asn Leu Leu Val Asn Thr Leu Ser Lys Asp Met Ser Ile Ser Leu Ala
          20          25          30
Gly Cys Met Ala Gln Leu Tyr Phe Phe Ile Ser Leu Met Cys Thr Glu
          35          40          45
Cys Val Leu Leu Ala Val Met Ala Phe Asp Arg Tyr Ile Ala Val Cys
          50          55          60
His Pro Leu His Tyr Val Thr Ile Val Ser Asn Lys Leu Cys Ile Gln
65          70          75          80
Leu Ala Ala Ala Ser Trp Ile Ala Gly Phe Thr Val Ser Val Ile Lys
          85          90          95
Val Tyr Phe Ile Ser Arg Leu Ser Phe Cys Gly Pro Asn Ile Ile Asn
          100          105          110
His Phe Phe Cys Asp Ile Ser Pro Val Leu Asn Leu Ala Cys Val Asp
          115          120          125
Met Ser Leu Ala Glu Phe Val Asp Phe Val Leu Ala Leu Val Ile Leu
          130          135          140
Leu Thr Pro Leu Phe Val Thr Val Ala Ser Tyr Leu Cys Ile Ile Phe
145          150          155          160
Thr Ile Leu Lys Ile Pro Thr Asn Thr Gly Arg Gln Lys Ala Phe Ser
          165          170          175
Thr Cys Ala Ser His Leu Thr Val Val Thr Ile Phe Phe Ser Thr Thr
          180          185          190
Leu Phe Met Tyr Ala Arg Pro Lys Lys Ala Lys Ser Leu Asp Tyr Phe

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	195		200		205
Lys	Ile Leu Ser Leu Leu Tyr	Ala Val Phe Thr	Pro Met Leu		
210	215	220			

&lt;210&gt; 2745

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (HOR5beta3)

&lt;400&gt;2745

Met Trp Pro Asn Ile Thr Ala Ala Pro Phe Leu Leu Thr Gly Phe Pro	
1 5 10 15	
Gly Leu Glu Ala Ala His His Trp Ile Ser Ile Pro Phe Phe Ala Val	
20 25 30	
Tyr Val Cys Ile Leu Leu Gly Asn Gly Met Leu Leu Tyr Leu Ile Lys	
35 40 45	
His Asp His Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Thr Met Leu	
50 55 60	
Ala Gly Thr Asp Leu Met Val Thr Leu Thr Thr Met Pro Thr Val Met	
65 70 75 80	
Gly Ile Leu Trp Val Asn His Arg Glu Ile Ser Ser Val Gly Cys Phe	
85 90 95	
Leu Gln Ala Tyr Phe Ile His Ser Leu Ser Val Val Glu Ser Gly Ser	
100 105 110	
Leu Leu Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Arg Asn Pro Leu	
115 120 125	
Arg Tyr Ala Ser Ile Phe Thr Asn Thr Arg Val Ile Ala Leu Gly Val	
130 135 140	
Gly Val Phe Leu Arg Gly Phe Val Ser Ile Leu Pro Val Ile Leu Arg	
145 150 155 160	
Leu Phe Ser Phe Ser Tyr Cys Lys Ser His Val Ile Thr Arg Ala Phe	
165 170 175	
Cys Leu His Gln Glu Ile Met Arg Leu Ala Cys Ala Asp Ile Thr Phe	
180 185 190	
Asn Arg Leu Tyr Pro Val Ile Leu Ile Ser Leu Thr Ile Phe Leu Asp	
195 200 205	
Ser Leu Ile Ile Leu Phe Ser Tyr Ile Leu Ile Leu Asn Thr Val Ile	
210 215 220	
Gly Ile Ala Ser Gly Glu Arg Ala Lys Ala Leu Asn Thr Cys Ile	
225 230 235 240	
Ser His Ile Ser Cys Val Leu Ile Phe Tyr Val Thr Val Met Gly Leu	
245 250 255	
Thr Phe Ile Tyr Arg Phe Gly Lys Asn Val Pro Glu Val Val His Ile	
260 265 270	
Ile Met Ser Tyr Ile Tyr Phe Leu Phe Pro Pro Leu Met Asn Pro Val	
275 280 285	
Ile Tyr Ser Ile Lys Thr Lys Gln Ile Gln Tyr Gly Ile Ile Arg Leu	
290 295 300	
Leu Ser Lys His Arg Phe Ser Arg	
305 310	

&lt;210&gt; 2746

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (HOR5beta2 (translated via ORDEAL))

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(310)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt;2746

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Thr His Asn Ala Ala Pro Phe Leu Leu Pro Gly Phe Ser Val Leu Glu
1      5      10      15
Ala Thr Tyr His Ser Ile Ser Ile Pro Phe Phe Ala Val Tyr Val Cys
20      25      30
Val Leu Leu Gly Asn Gly Lys Leu Leu Tyr Leu Ile Lys His Asp His
35      40      45
Ser Leu His Glu Pro Met Tyr Cys Phe Leu Ala Thr Leu Arg Gln Asp
50      55      60
Leu Met Val Lys Leu Thr Met Met Pro Thr Val Met Gly Val Leu Trp
65      70      75      80
Met Asn His Lys Glu Val Ile His Gly Ala Cys Phe Leu Gln Val Tyr
85      90      95
Ile Ile His Ser His Tyr Pro Leu Ala Glu Ser Gly Ile Leu Leu Ser
100      105      110
Met Ala Tyr Asp Arg Phe Ile Ile Ile His Met Leu Leu Arg Tyr Asn
115      120      125
Ser Ile Ser Thr Lys Ser Trp Val Lys Ile Glu Leu Trp Leu Phe Met
130      135      140
Arg Asp Phe Leu Ser Leu Val Pro Pro Ile Leu Pro Leu His Cys Phe
145      150      155      160
Pro Tyr Cys His Ser His Val Leu Phe His Thr Phe Phe Leu His Gln
165      170      175
Asp Val Leu Lys Leu Ala Cys Ala Asp Ile Thr Phe Asn His Leu Tyr
180      185      190
Pro Ala Ile Leu Val Ala Leu Ile Phe Phe Leu Asp Ala Leu Ile Ile
195      200      205
Val Phe Ser Tyr Ile Leu Ile Leu Lys Thr Val Ile Gly Ile Ala Ser
210      215      220
Arg Lys Glu Gln Ala Lys Ala Leu Asn Met Cys Val Ser His Ile Ser
225      230      235      240
Cys Val Leu Val Phe His Ile Thr Val Ile Ser Glu Thr Phe Ile His
245      250      255
Arg Phe Gly Lys His Ala Pro His Val Val His Ile Thr Val Ser Xaa
260      265      270
Xaa Leu Ile Leu Phe Pro Pro Phe Met Asn Pro Ile Ile Tyr Ser Ile
275      280      285
Lys Pro Ser Arg Ser Lys Glu Ala Leu Xaa Arg Leu Phe Ser Gly His
290      295      300
Arg Met Ala Xaa Ala Leu
305      310

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&lt;210&gt; 2747

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (HOR5beta1)

&lt;400&gt;2747

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Met Trp Tyr Asn Asn Ser Ala Gly Pro Phe Leu Leu Thr Gly Phe Leu
1      5      10      15
Gly Ser Glu Ala Val His Tyr Arg Ile Ser Met Ser Phe Phe Val Ile
20      25      30
Tyr Phe Ser Val Leu Phe Gly Asn Gly Thr Leu Leu Val Leu Ile Trp
35      40      45
Asn Asp His Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ala Met Leu
50      55      60
Ala Asp Thr Asp Leu Gly Met Thr Phe Thr Thr Met Pro Thr Val Leu
65      70      75      80
Gly Val Leu Leu Leu Asp Gln Arg Glu Ile Ala His Ala Ala Cys Phe
85      90      95
Thr Gln Ser Phe Ile His Ser Leu Ala Ile Val Glu Ser Gly Ile Leu

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*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*



WO 01/027158 A3

(54) Title: OLFACTORY RECEPTOR SEQUENCES

(57) Abstract: The present invention provides polynucleotide sequences which encode polypeptides involved in olfactory sensa-  
tion. The present invention also provides the polypeptides encoded by these polynucleotide sequences, vectors comprising these  
polynucleotide sequences and host cells transfected with these polynucleotide sequences. The present invention further provides  
for functional variants and homologues of these polynucleotide sequences and the polypeptides encoded by these polynucleotides.  
Libraries of polypeptides are also provided. Also included in the present invention is the use of these polypeptides and libraries of  
polypeptides in screening odorant molecules to determine the correspondence (scent representation, scent fingerprint or scent pro-  
file) between individual odorant receptors (the polypeptides) and particular odorant molecules. Also encompassed by the present  
invention is the use of the scent representation, scent fingerprint or scent profile to re-create and edit scents.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/27582

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C07K14/705 C12N5/10 G01N33/50 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12N C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, SEQUENCE SEARCH, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WETZEL CHRISTIAN H ET AL: "Specificity and sensitivity of a human olfactory receptor functionally expressed in human embryonic kidney 293 cells and Xenopus laevis oocytes." JOURNAL OF NEUROSCIENCE, vol. 19, no. 17, pages 7426-7433, XP002178954 ISSN: 0270-6474 cited in the application the whole document	
A	WO 95 18140 A (YEDA RES & DEV ;RYCUS AVIGAIL (IL); BEN ARIE NISSIM (IL); LANCET D) 6 July 1995 (1995-07-06) pages 3,4,6; Figs 3 + 4 --- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"8" document member of the same patent family

Date of the actual completion of the international search

2 October 2001

Date of mailing of the international search report

15. 01. 02

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## INTERNATIONAL SEARCH REPORT

In tional Application No

PCT/US 00/27582

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>GLUSMAN GUSTAVO ET AL: "Sequence analysis in the olfactory receptor gene cluster on human chromosome 17: Recombinatorial events affecting receptor diversity." GENOMICS, vol. 37, no. 2, 1996, pages 147-160, XP002178955 ISSN: 0888-7543 the whole document</p>	
A	<p>&amp; DATABASE EMBL SEQUENCE LIBRARY [Online] 22 July 1994 (1994-07-22) CROWE M.L., PERRY B.N., CONNERTON I.F.: "olfactory receptor; OR17-40 gene" abstract</p>	
A	<p>--- BUETTNER JILL A ET AL: "Organization and evolution of olfactory receptor genes on human chromosome 11." GENOMICS, vol. 53, no. 1, 1 October 1998 (1998-10-01), pages 56-68, XP002178956 ISSN: 0888-7543 the whole document</p>	
A	<p>--- TRASK B J ET AL: "Members of the olfactory receptor gene family are contained in large blocks of DNA duplicated polymorphically near the ends of human chromosomes" HUMAN MOLECULAR GENETICS, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 7, no. 1, January 1998 (1998-01), pages 13-26, XP002135641 ISSN: 0964-6906 the whole document</p>	
A	<p>&amp; DATABASE EMBL SEQUENCE LIBRARY [Online] 9 June 1996 (1996-06-09) TRASK, B.J., ET AL.: "Homo sapiens chromosome-19 36.3-kbp cosmid F7501, with 3 regions of similarity to olfactory receptor protein genes" accession no. L78442</p>	
A	<p>--- KRAUTWURST D ET AL: "Identification of ligands for olfactory receptors by functional expression of a receptor library" CELL, CELL PRESS, CAMBRIDGE, MA, US, vol. 95, 25 June 1998 (1998-06-25), pages 917-926, XP002153217 ISSN: 0092-8674 cited in the application</p> <p>---</p> <p style="text-align: center;">-/--</p>	

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/27582

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 50081 A (ZHAO HAIQING ;FIRESTEIN STUART J (US)) 12 November 1998 (1998-11-12) cited in the application ---	
P,X	DATABASE EMBL SEQUENCE LIBRARY [Online] 14 June 2000 (2000-06-14) HEILIG R., ET AL.: "Human chromosome 14 DNA sequence BAC R-55G7 of library RPCI-11 from chromosome 14 of Homo sapiens (Human)" XP002178959 accession no. AL359218 ---	1,4
T	GLUSMAN GUSTAVO ET AL: "Sequence, structure, and evolution of a complete human olfactory receptor gene cluster." GENOMICS., vol. 63, no. 2, 15 January 2000 (2000-01-15), pages 227-245, XP002178957 ISSN: 0888-7543 the whole document ---	
T	FUCHS TANIA ET AL: "The human olfactory subgenome: From sequence to structure and evolution." HUMAN GENETICS, vol. 108, no. 1, January 2001 (2001-01), pages 1-13, XP002178958 ISSN: 0340-6717 -----	

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 00/27582

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Claims 1-7, 15-19 partially.

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

## 1. Claim : 1

Invention 1:

claims 1-7, 15-19 partially

Isolated nucleotide sequence encoding an olfactory receptor as characterized by SEQID1; the recombinant expression of the same in host cells; the translated polypeptide sequence of SEQID1 and a host cell and phage expressing said polypeptide; furthermore, a library of olfactory receptors suitable of determining the interaction pattern of a composition with said receptors comprising the translated expression products of at least two, 50, 100, 200 or 500 polynucleotides encoding olfactory receptors, one of which is characterized by SEQID1.

## 2. Claim : 2

Invention 2-115:

claims 1-7, 15-19 partially

As invention one but as characterized by SEQIDs 2-73 and 111-152.

## 3. Claim : 3

Invention 116-1047:

claims 8-10 and 15-19 partially, 31,32,33 completely

Isolated nucleotide sequence encoding an olfactory receptor as characterized by one of the SEQIDs from the group of SEQID153 to SEQID1084; the recombinant expression of the same in a host cell; furthermore, a library of olfactory receptors suitable of determining the interaction pattern of a composition with said receptors comprising the translated expression products of at least two, 50, 100, 200 or 500 polynucleotides encoding olfactory receptors, one of which is characterized by one of the SEQIDs from the group of SEQID153 to SEQID1084; furthermore, a DNA array or a DNA chip comprising a DNA segment derived from one SEQID of the group of SEID153 to SEQID1084, a method determining the differences among individuals with respect to their olfactory faculties,

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

comprising comparing the olfactory DNA of the individual against said DNA array or chip; method to determine a single nucleotide polymorphism in olfactory receptors based on primers designed according to the first and last 25 bases of one of the SEQIDs of the group of SEQID153 to SEQID1084.

## 4. Claim : 4

Invention 1048-1971:

claims 11-14,20-24,25-30 partially

Isolated olfactory receptor polypeptide as characterized by one of the SEQIDs from the group of SEQID1085 to SEQID2008; a recombinant host cell or phage expressing said polypeptide; furthermore, a library of olfactory receptors suitable of determining the interaction pattern of a composition with said receptors comprising at least two, 50, 100, 200 or 500 olfactory receptor polypeptides, one of which is characterized by one of the SEQIDs from the group of SEQID1085 to SEQID2008; furthermore, a method for determining the binding pattern of a composition with olfactory receptors, comprising exposing said library to a composition, further determining whether the receptor is activated.

# INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/US 00/27582

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9518140	A	06-07-1995	WO 9518140 A1	06-07-1995
WO 9850081	A	12-11-1998	US 5993778 A	30-11-1999
			AU 7372898 A	27-11-1998
			EP 0983506 A2	08-03-2000
			US 6218358 B1	17-04-2001
			WO 9850081 A2	12-11-1998

Form PCT/ISA/210 (patent family annex) (July 1992)